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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C12Q 1/68	A2	(11) International Publication Number: WO 00/52204 (43) International Publication Date: 8 September 2000 (08.09.00)
(21) International Application Number: PCT/IB00/00367 (22) International Filing Date: 22 February 2000 (22.02.00) (30) Priority Data: 60/121,124 22 February 1999 (22.02.99) US (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 60/121,124 (CON) Filed on 22 February 1999 (22.02.99) (71)(72) Applicant and Inventor: ORNTOFT, Torben, F. [DK/DK]; Dept. Clin. Biochem, Skejby Sygehus, DK-8200 Aarhus N (DK). (74) Agent: JANSSEN, Bernd; Uexküll & Stolberg, Beselerstrasse 4, D-22607 Hamburg (DE).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM; KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: GENE EXPRESSION IN BLADDER TUMORS		
(57) Abstract Methods for analyzing tumor cells, particularly bladder tumor cells employ gene expression analysis of samples. Gene expression patterns are formed and compared to reference patterns. Alternatively gene expression patterns are manipulated to exclude genes which are expressed in contaminating cell populations. Another alternative employs subtraction of the expression of genes which are expressed in contaminating cell types. These methods provide improved accuracy as well as alternative basis for analysis from diagnostic an prognostic tools currently available.		

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GENE EXPRESSION IN BLADDER TUMORS

This application claims the benefit of U.S. Provisional Application No. 60/121,124, filed February 22, 1999, which is hereby incorporated by reference in its entirety.

5 TECHNICAL FIELD OF THE INVENTION

This invention is related to the field of cancer diagnosis and treatment. In particular it is related to the use of gene expression to categorize and detect tumors.

BACKGROUND OF THE INVENTION

10 The building of large databases containing human genome sequences is the basis for studies of gene expressions in various tissues during normal physiological and pathologic conditions. Constantly (constitutively) expressed sequences as well as sequences whose expression is altered during disease processes are important for our understanding of cellular properties, and for
15 the identification of candidate genes for future therapeutic intervention. As the number of known genes and ESTs build up in the databases, array-based simultaneous screening of thousands of genes is necessary to obtain a profile of transcriptional behaviour, and to identify key genes that, either alone or in combination with other genes, control various aspects of cellular life. One

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Still another object of the invention is to provide a method of identifying a tissue sample as urothelial.

Yet another object of the invention provides a method of determining an expression pattern of a bladder tissue sample independent of the proportion of submucosal, muscle, and connective tissue cells present.

These and other objects of the invention are achieved by providing one or more of the embodiments described below. In one embodiment a method is provided of determining an expression pattern of a cell sample independent of the proportion of submucosal, smooth muscle, or connective tissue cells present. Expression is determined of one or more genes in a sample comprising cells. The one or more genes exclude genes which are expressed in the submucosal, muscle, and connective tissue. A pattern of expression is formed for the sample which is independent of the proportion of submucosal, muscle, and connective tissue cells in the sample.

In another aspect of the invention a method of determining an expression pattern of a cell sample is provided. Expression is determined of one or more genes in a sample comprising cells. A first pattern of expression is thereby formed for the sample. Genes which are expressed in submucosal, smooth muscle, or connective tissue cells are removed from the first pattern of expression, forming a second pattern of expression which is independent of the proportion of submucosal, smooth muscle, or connective tissue cells in the sample.

Another embodiment of the invention provides a method for determining an expression pattern of a urothelium or bladder cancer cell. Expression is determined of one or more genes in a sample comprising urothelium or bladder cancer cells; the expression determined forms a first pattern of expression. A second pattern of expression which was formed using the one or more genes and a sample comprising predominantly submucosal, smooth muscle, or connective tissue cells, is subtracted from the first pattern of expression, forming a third pattern of expression. The third pattern of expression reflects expression of the urothelium or bladder cancer cells

independent of the proportion of submucosal, smooth muscle, or connective tissue cells present in the sample.

5 In another embodiment of the invention a method is provided of detecting an invasive tumor in a patient. A marker is detected in a sample of a body fluid. The body fluid is selected from the group consisting of blood, plasma, serum, urine, ascites fluid, pleural fluid, spinal fluid, sputum, and mucous secretions. The marker is an mRNA or protein expression product of a gene which is more prevalent in submucosal, smooth muscle, or connective tissue than in the body fluid. An increased amount of the marker in the body
10 fluid indicates a tumor which has become invasive in the patient.

In another aspect of the invention a method is provided for diagnosing a bladder cancer. A first pattern of expression is determined of one or more genes in a bladder tissue sample suspected of being neoplastic. The first pattern of expression is compared to a second and third reference pattern of
15 expression. The second pattern is of the one or more genes in normal urothelium and the third pattern is of the one or more genes in bladder cancer. A first pattern of expression which is found to be more similar to the third pattern than the second indicates neoplasia of the bladder tissue sample.

According to yet another aspect of the invention a method is provided
20 for predicting outcome or prescribing treatment of a bladder tumor. A first pattern of expression is determined of one or more genes in a bladder tumor sample. The first pattern is compared to one or more reference patterns of expression determined for bladder tumors at a grade between I and IV. The reference pattern which shares maximum similarity with the first pattern is
25 identified. The outcome or treatment appropriate for the grade of tumor of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

In another embodiment of the invention a method is provided for determining grade of a bladder tumor. A first pattern of expression is
30 determined of one or more genes in a bladder tumor sample. The first pattern is compared to one or more reference patterns of expression determined for

bladder tumors at a grade between I and IV. The reference pattern which shares maximum similarity with the first pattern is identified. The grade of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

5 Yet another embodiment of the invention provides a method to determine stage of a bladder tumor. A first pattern of expression is determined of one or more genes in a bladder tumor sample. The first pattern is compared to one or more reference patterns of expression determined for bladder tumors at different stages. The reference pattern which shares
10 maximum similarity with the first pattern is identified. The stage of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

In still another embodiment of the invention a method is provided for identifying a tissue sample as urothelial. A first pattern of expression is
15 determined of one or more genes in a tissue sample. The first pattern of expression is compared to a second pattern of expression obtained from normal urothelial cells. Similarity between the first and second patterns identifies the tissue sample is urothelial in its origin.

Another aspect of the invention is a method to identify a set of genes
20 useful for diagnosing, predicting outcome, or prescribing treatment of a bladder cancer. A first pattern of expression is determined of one or more genes in a first bladder tissue sample. A second pattern of expression is determined of the one or more genes in a second bladder tissue sample. The first bladder tissue sample is a normal urothelium sample or an earlier stage or lower grade of
25 bladder tumor than the second bladder tissue sample. The first pattern of expression is compared to the second pattern of expression to identify a first set of genes whose expression is increased or decreased in the second bladder tissue sample relative to the first bladder tissue sample. Those genes which are expressed in submucosal, smooth muscle or connective tissue are removed
30 from the first set of genes to produce a second set of genes. Expression of the

second set of genes can be used for diagnosing, predicting outcome, or prescribing treatment of a bladder cancer.

5 According to yet another aspect of the invention a method is provided for determining an expression pattern of a bladder tissue sample independent of the proportion of submucosal, smooth muscle, or connective tissue cells present. A single-cell suspension of disaggregated bladder tumor cells is isolated from a bladder tissue sample comprising bladder cells, submucosal cells, smooth muscle cells, or connective tissue cells. The expression of one or more genes in the single-cell suspension is determined. A pattern of
10 expression is thus formed for the sample which is independent of the proportion of submucosal, smooth muscle, or connective tissue cells in the bladder tissue sample.

According to still another aspect of the invention a method is provided for screening compounds to identify candidate therapeutic agents for treating
15 bladder cancer. Bladder tumor cells are contacted with a test compound. Gene expression of one or more genes is determined in the bladder tumor cells which have been contacted with the test compound. The one or more genes are ones whose expression changes during the development of a bladder cancer. A test compound is identified as a candidate therapeutic agent if it
20 causes gene expression of at least one of the one or more genes to change to a level which is characteristic of an earlier stage of cancer progression.

The present invention thus provides the art with numerous methods for molecularly assessing bladder cells. The methods aid the art in diagnosing, identifying, classifying, treating, detecting, and treating tumors of the bladder.

25 **BRIEF DESCRIPTION OF THE DRAWINGS AND TABLES**

Figure 1 shows a distribution of expression levels in bladder wall tissue expressed in arbitrary units. Only genes scored as present or marginally present are shown.

Figure 2 shows a comparison of intensity differences between a tumor
30 and a pool of tumors of the same stage and grade, and two pools of different

stages and grades. The difference is larger between the pools, demonstrating the validity of using expression patterns to determine stage, grade, prognosis, and treatment regimen.

5 All genes scored as present on two chips (approximately 9000 genes) were compared. Increased genes were compared to increased genes and decreased genes to decreased genes, on two separate chips, followed by plotting of the numerical difference of the medians. A TaGrII tumor compared to the TaGrII pool, and the TaGrII pool to T2GrIV pool (1, 2, 3, 4); T2GrIII to T2GrIII pool, and T2GrIII pool to T2GrIV pool (5, 6, 7, 8); T2GrIV to
10 T2GrIV pool, and T2GrIV pool to TaGrII pool (9, 10, 11, 12). Paired T-test of medians showed a borderline significant difference, with pool vs. pool scoring highest (P-value of 0.07).

Figure 3 shows progression of a bladder cancer from normal urothelium to invasive grade IV tumor. The expression patterns change during the
15 progression, with a great variation in pattern from stage to stage, but also within a stage and even within tumors having the same stage and grade of atypia.

Figure 4 shows the correlation between transcript levels from genes expressed in at least one sample. Fig. 4A demonstrates the repeatability of
20 microarray expression analysis. Duplicate determinations on a normal sample are compared. Fig. 4B is a plot of a pTa tumor vs. the normal pool. Fig. 4C is a plot of an invasive pT2 tumor versus the normal pool. The vast majority of transcripts are present at similar levels in both normal and tumor tissue.

Figure 5 shows dendrograms of tissues based on different clustering
25 methods. Clustering was either based on log-fold change in expression level of genes (Figs. 5A, 5C), or the absolute difference (Figs. 5B, 5D), comparing tumor to a pool of normal samples. Genes used for clustering were either those 10% of the genes that covaried best with progression (A, B), or all 4076 genes that were scored as present in at least one sample (C, D).

30 Figure 6A through 6F show how the pattern of expression changes during progression of bladder cancer based on levels of transcripts in pools of

normal biopsies, superficial pTa tumors grade II, and invasive pT2+grade IV tumors. The curve at the top left portion of each subfigure shows the direction of change in gene expression based on pools of normal urothelium (open circle), superficial pTa tumor (gray circle) and invasive pT2+ tumor (black circle). Fold change in gene expression level was calculated on a probe-to-probe basis using 20 probes per gene and eliminating the highest and lowest outliers (olympic scoring). It is noteworthy that reduced expression is the most common event.

Figure 7 shows a cluster diagram of 9 bladder tumors representing the progression of bladder cancer. Each column represents a tumor preparation, and each row a gene. The diagrams show clustering based on log-fold change from normal urothelium (left diagram) and based on absolute difference from normal urothelium (right diagram). A decreased expression is displayed as shades of cyan, an increased expression as shades of yellow, and no change as black.

The dendrograms at each side show the relation between the different genes. In the middle, distinct functional clusters are identified and members of the clusters are annotated in brief (for full length ID of all genes in the diagram and Genbank numbers see www.mdl.dk/supplementary data). In an effort to identify those genes most indicative of cancer progression a weighting scheme was used to select the 400 genes that covaried best with the different stages of bladder cancer. Gene clustering was based on normalized Euclidean distance (vector angle) calculated between genes or gene cluster centers.

Figure 8 shows the vector angle between pools and individual single cell preparations or biopsies. The numbers refer to patient samples and the stage of each is indicated. Pools are identified as follows: squares, Ta grade I pool; diamonds, Ta grade II pool; circles, T2-4 grade III pool; triangles, T2-4 grade IV pool. The lowest angle for each sample determines the whether the sample is classified as a superficial (Ta or T1) or muscle-invasive tumor (T1-T4).

Figure 9 shows a comparison of Northern blots and oligonucleotide arrays. The samples analyzed were normal pool (Norm), superficial pTaGrI tumor (335), minimally invasive pT1 grade III (901), and invasive pT2 grade III (713). The Northern blots were scanned by densitometry and plotted (solid lines) together with a plot of the level detected on the arrays (dotted lines). The levels of expression ranged from 3-6,000 units (beta -2 microglobulin) to 100-600 units (E-cadherin). The level of transcripts detected was similar with both methods.

Figure 10 shows immunohistochemical staining of the tissue sections used for expression analysis. On each section the protein examined is indicated and the level measured on the oligonucleotide array. Arrows indicate stained urothelial cells in cathepsin E (297 arbitrary units), ApoE (389 units), and CD59 (260 units) stainings, and stained stromal cells or leukocytes in beta2-microglobulin (2481 units) and cystatin C (941 units).

Figure 11 presents a model of gene expression events during the progression of bladder cancer. The top of the figure shows the stages of bladder cancer, and the lower part shows the sequence of transcriptional events. The color cyan identifies reduced expression, yellow increased expression (also indicated by arrows). The figure is based on data from cluster analysis, and combines the different cluster methods.

Table 1 shows genes which were highly expressed in bladder wall. Expression is shown in "connective tissue" which includes muscle and submucosal cells, a TaGr III, a T₂Gr III, and a T₂Gr IV bladder tumor. Genes above the 90th percentile are grouped according to the purported function of the protein.

Table 2A shows high intensity genes in bladder wall compared to single cell solutions and biopsies of tumors.

Table 2B shows expression of genes related to bladder wall.

Table 3 shows the number of genes that are expressed as in the tumor-pool to which the tumor belongs, or altered as in a tumor pool of higher or lower stage or grade.

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Several of the tables described above contain lists which include both genes and expressed sequence tags (ESTs). Reference to the "genes" of a table shall be understood to include the gene containing the EST.

DETAILED DESCRIPTION OF THE INVENTION

5 It is a discovery of the present inventor that characteristic patterns of expression of genes can be used to characterize different types of tissue. Thus, for example, gene expression patterns can be used to characterize stages and grades of bladder tumors. Similarly, gene expression patterns can be used to distinguish cells having a bladder origin from other cells. Moreover, gene
10 expression of cells which routinely contaminate bladder tumor biopsies has been identified, and such gene expression can be removed or subtracted from patterns obtained from bladder biopsies. Further, the gene expression patterns of single-cell solutions of bladder tumor cells have been found to be far freer of interfering expression of contaminating muscle, submucosal, and connective
15 tissue cells than biopsy samples.

 Working with human tumor material requires biopsies, and working with RNA requires freshly frozen or immediately processed biopsies. Biopsies inevitably contain many different cell types in addition to cancer cells, such as cells present in blood, connective and muscle tissue, endothelium etc. In the
20 case of DNA studies, microdissection or laser capture are methods of choice, however, the time-dependent degradation of RNA makes it difficult to perform manipulation of the tissue for more than a few minutes. Furthermore, studies of expressed sequences may be difficult on the few cells obtained via microdissection or laser capture, as these may have an expression pattern that
25 deviates from the predominant pattern in a tumor due to intratumoral heterogeneity.

 High-density expression arrays were used to evaluate the impact of bladder wall components in bladder tumor biopsies, and tested preparation of single cell solutions as a means of eliminating the contaminants. The results of
30 these evaluations permitted the design of methods of evaluating bladder

samples without the interfering background noise caused by ubiquitous contaminating submucosal, muscle, and connective tissue cells.

The evaluating assays of the invention may be of any type. While high-density expression arrays can be used, other techniques are also contemplated.

5 These include other techniques for assaying for specific mRNA species, including RT-PCR and Northern Blotting, as well as techniques for assaying for particular protein products, such as ELISA, Western Blotting, and enzyme assays. Gene expression patterns according to the present invention are determined by measuring a gene product of a particular gene, including mRNA
10 and protein. A pattern may be for one or more genes.

Using the results provided in the accompanying figures and tables, a gene is indicated as being expressed if an intensity value of greater than or equal to 21 is shown. Conversely, an intensity value of less than 21 indicates that the gene is not expressed above background levels. Comparison of an
15 expression pattern to another may score a change from expressed to non-expressed, or the reverse. Alternatively, changes in intensity of expression may be scored, either increases or decreases. Any statistically significant change can be used. Typically changes which are greater than 2-fold are suitable. Changes which are greater than 3-fold or 5-fold are highly significant.

20 A pattern of characteristic expression of just one gene can be useful in characterizing a cell type source or a stage of disease. However, more genes may be usefully analyzed. Useful patterns include expression of at least one, two, three, five, ten, fifteen, twenty, twenty-five, fifty, seventy-five, or one hundred informative genes. As used herein, the phrase "stage-specific
25 reference pattern" refers to a pattern of gene expression characteristic of a given stage of progression in a bladder tumor. A stage-specific reference pattern can include one or more genes listed in Table 4 and/or one or more genes listed in Table 8 and/or one or more genes listed in Table 9 and/or one or more genes listed in Fig. 6.

30 RNA or protein can be isolated and assayed from a test sample using any techniques known in the art. They can, for example, be isolated from fresh

or frozen biopsy, from formalin-fixed tissue, from body fluids, such as blood, plasma, serum, urine, or sputum.

Stage of a bladder tumor indicates how deeply the tumor has penetrated. Superficial tumors are termed Ta, and T₁₋₄ are used to describe increasing degrees of penetration into the muscle. The grade of a bladder tumor is expressed on a scale of I-IV (1-4). The grade reflects the cytological appearance of the cells. Grade I cells are almost normal. Grade II cells are slightly deviant. Grade III cells are clearly abnormal. And Grade IV cells are highly abnormal.

As used herein, the reference to genes which are expressed in "submucosal, smooth muscle, or connective tissue" or patterns of expression in "other cell types" can include the expression of one or more of the genes listed in Table 1 and/or one or more of the genes listed in Table 6. The term "connective tissue cell" includes any stromal cell such as fibroblasts, macrophages, mast cells, granulocytes, etc. The data provided herein of expression for submucosal, smooth muscle, and connective tissue can be used in at least three ways to improve the quality of data for a tested sample. The genes identified in the data as expressed can be excluded from the testing altogether or tested but eliminated from the analysis. Alternatively, the intensity of expression of the genes expressed in the submucosal, smooth muscle, and/or connective tissue can be subtracted from the intensity of expression determined for the test tissue.

Patterns can be compared manually (by a person) or by a computer or other machine. An algorithm can be used to detect similarities and differences. The algorithm may score and compare, for example, the genes which are expressed and the genes which are not expressed. Alternatively, the algorithm may look for changes in intensity of expression of a particular gene and score changes in intensity between two samples. A variety of such algorithms are known in the art. Similarities may be determined on the basis of genes which are expressed in both samples and genes which are not expressed in both samples or on the basis of genes whose intensity of expression are numerically

similar. Differences are considered significant when they are greater than 2-fold, 3-fold or 5-fold from the base value. Alternatively, a mathematical approach can be used to conclude whether differences in the gene expression exhibited by different samples is significant (*see, e.g.*, Golub et al., Science 286, 531 (1999)). One approach to determine whether a sample is more similar to or has maximum similarity with a given condition (*e.g.*, a particular grade or stage of tumor progression) is to compare the Euclidean distances (see Golub et al. and Example 6) between the sample and one or more pools representing different conditions for comparison; the pool with the smallest vector angle is then chosen as the most similar to the test sample among the pools compared.

The data collected and disclosed here as "connective tissue" is presumed to contain both smooth muscle and submucosal gene expression as well. Thus it represents the composite expression of those cell types which can typically contaminate a bladder tumor biopsy.

Genes identified as changing in various stages or grades of bladder cancer can be used as markers for drug screening. Thus by treating bladder cancer cells with test compounds or extracts, and monitoring the expression of genes identified as changing in the progression of bladder cancers, one can identify compounds or extracts which change expression of genes to a pattern which is of an earlier stage/grade or even of normal urothelium. As used herein, the reference to expression of genes in "normal urothelium" or "normal urothelial cells" can include one or more genes listed in Table 7.

As demonstrated below, pools of tumors of a similar stage or grade, particularly bladder tumors, can be made and the expression of the pool evaluated. The expression data of the pool can be used to define a stage or grade of tumor. The use of the pool minimizes the variations found from individual tumor to individual tumor of the same grade or stage. The expression data of the pool can then be used as a comparator to which individual tumor samples are compared, in an effort to categorize, prognosticate, and prescribe the tumor samples. The methods described herein for classifying the stage or grade of a tumor can be combined with sequence

analysis of genes whose expression is altered compared to normal tissue in the individual patient. In particular, mutations in key genes such as tumor suppressor genes can help to refine the application of the gene expression results to diagnosis and prognosis.

5 As used herein, the reference to expression of "genes in bladder cancer" or "genes in a bladder tumor" can include one or more genes listed in Table 4 and/or one or more of the genes listed in Table 8 and/or one or more genes listed in Table 9.

10 The above disclosure generally describes the present invention. A more complete understanding can be obtained by reference to the following specific examples which are provided herein for purposes of illustration only, and are not intended to limit the scope of the invention.

EXAMPLE 1

Quantification of gene expression using microarrays

15 Material

Bladder tumor biopsies were sampled from patients after informed consent was obtained, and after removal of the necessary amount of tissue for routine pathological examination. Tumors examined were 335 (stage pTa gradeI), 837 (pTa GrII), 901 (pTa GrIII), 320 (pT1 GrIII), 713 (pT2 GrIII).
20 RNA from six different tumors of the same stage and grade was combined to form each pool. Four such pools were prepared (pTa GrI pool, pTa GrII pool, pT2+ GrIII pool, and pT2+ GrIV pool). Normal bladder mucosa biopsies from 36 patients with prostatic hyperplasia or incontinence were pooled (as RNA) to obtain a normal urothelial reference. Single cell solutions were made by
25 disintegrating biopsies on ice with a scalpel and a syringe followed by filtering through a 50 micron filter.

Preparation of mRNA

Total RNA was isolated using the RNazol B RNA isolation method (WAK-Chemie Medical GMBH). Poly (A)+ RNA was isolated by an oligo-dT
30 selection step (Oligotex mRNA kit from Qiagen).

Preparation of cRNA

One µg mRNA was used as starting material for the cDNA preparation. The first and second strand cDNA synthesis was performed using the SuperScript Choice System (Life Technologies) according to the manufacturer's instructions, except that an oligo-dT primer containing a T7 RNA polymerase promoter site was used. Labeled cRNA was prepared using the MEGAscrip In Vitro Transcription kit (Ambion). Biotin labeled CTP and UTP (Enzo) was used in the reaction together with unlabeled NTP's. Following the IVT reaction, the unincorporated nucleotides were removed using RNeasy columns (Qiagen).

Array hybridization and scanning

Ten µg of cRNA was fragmented at 94°C for 35 min. in a fragmentation buffer containing 40mM Tris-acetate pH 8.1, 100mM KOAc, 30 mM MgOAc. Prior to hybridization, the fragmented cRNA in a 6xSSPE-T hybridization buffer (1M NaCl, 10mM Tris pH 7.6, 0.005% Triton) was heated to 95°C for 5 min and subsequently to 40°C for 5 min before loading onto an Affymetrix probe array cartridge (HuGeneF1 set array, part No. V900160). The probe array was then incubated for 16 h at 40°C at constant rotation (60 rpm). The washing and staining procedure was performed in the Affymetrix Fluidics Station. The probe array was exposed to 10 washes in 6xSSPE-T at 25°C followed by 4 washes in 0.5xSSPE-T at 50°C. The biotinylated cRNA was stained with a streptavidin-phycoerythrin conjugate, 10 µg/ml (Molecular Probes, Eugene, OR) in 6xSSPE-T for 30 min at 25°C followed by 10 washes in 6xSSPE-T at 25°C. The probe arrays were scanned at 560 nm using a confocal laser scanning microscope with an argon ion laser as the excitation source (made for Affymetrix by Molecular Dynamics). The readings from the quantitative scanning were analyzed by the Affymetrix Gene Expression Analysis Software.

Normalization of data

To compare samples, normalization of the data was necessary. For that purpose we compared scaling to total GAPDH intensity (sum of 3', middle,

5' probe sets) of 7000 units with scaling to a total chip intensity (global scaling) of 281850 units (averaging 150 units per probe set). Both gave similar results with scaling factors that differed less than ten percent in a set of experiments. Based on this we chose the global scaling for all experiments. The variation in hybridization intensity following global scaling in biopsies from the bladder wall is shown in Fig.1.

EXAMPLE 2

Interference of bladder wall components on expression profiling of bladder tumor biopsies

10 Biopsies contain epithelial cells that most often are the targets for the studies (e.g., in the identification and characterization of carcinoma cells), and in addition many other cells that contaminate the epithelial cell fraction to a varying extent. The contaminants include histiocytes, endothelial cells, leukocytes, nerve cells, muscle cells etc. Microdissection is the method of choice for DNA examination, but in case of expression studies this procedure is difficult due to RNA degradation during the procedure. Our approach has been to gently remove the epithelium and monitor the expression in the remaining submucosa and underlying connective tissue (the bladder wall). Genes expressed at high or low levels in the bladder wall should be interrogated when performing expression monitoring of the urothelium and urothelial tumors. A similar approach could be used for studies of epithelia in other organs.

25 We gently scraped off some of the normal urothelium lining the bladder lumen from bladders removed at cystectomy for bladder cancer. Then biopsies were taken from the denuded submucosa and connective tissue, reaching approximately 5 mm into the bladder wall, and immediately disintegrated in guanidinium isothiocyanate. Total RNA was extracted from four different cystectomy specimens, pooled, and poly(A)⁺ mRNA was prepared from the pool followed by conversion to double-stranded cDNA and in vitro transcription into cRNA containing biotin-labeled CTP and UTP.

The labeled sample was hybridized to a set of 4 arrays containing 7074 probe sets for human genes. A total of 1491 of the examined genes (21.1%) were scored as present, and 120 (1.7%) as present but rare. The percentile distribution of the expression intensity was (90%, 1308; 75%, 383; 50%, 163; 25%, 85; 10%, 47). Genes above the 90th percentile (Table 1) were grouped according to the purported function of the protein (Table 1, first column). Many of the highly expressed genes belong to a group of genes that encode proteins involved in transcription and translation, probably reflecting that these genes generally are highly expressed in the various cell types present in the bladder wall, and corresponding to recent data on yeast. Structural proteins such as keratins and proline rich proteins are highly expressed whereas collagen genes are only medium expressed. Extremely high expression is shown by the cystic fibrosis antigen gene, the S100 calcium binding protein, the cystatin B and the cytokeratin 13 genes that are all above 10,000 units.

To evaluate the influence of bladder wall tissue in urothelial tumor biopsies, we monitored the expression level in 3 biopsies from transitional cell carcinomas (one superficially invasive (#733-2) and two muscle invasive (#733-1 and #879-1). The expression intensity in the tumor biopsies of genes that are highly expressed in bladder wall are listed in Table 1. Many genes are expressed to the same magnitude in the tumor biopsies as in bladder wall, 82 genes (5%) were present at a level above 1308 in all samples, and above the 75% percentile of the bladder wall sample intensity (383 units) 210 genes were expressed in all three biopsies as well as in bladder wall. Genes that were not expressed in bladder wall but present in the urothelial biopsies amounted to 196.

Genes that are expressed and genes that are not expressed in bladder wall can both interfere with the interpretation of the expression in a biopsy, and should be interrogated when interpreting expression intensities in urothelial tumor biopsies, as the bladder wall component of a biopsy varies in amount from biopsy to biopsy.

It is remarkable how similarly many genes belonging to the groups encoding metabolically active proteins, transcription and translation related proteins, mitochondrial and nucleoproteins, are expressed in the different samples (Table 1). It seems reasonable to expect that it is incompatible with cellular function to stray from a narrow interval regarding these genes. Although some of the examined cells are malignant of atypia grade IV, which is a severe morphological deviation from normal, the key cellular functions are obviously still under strict control.

Twenty six genes were expressed at an intensity above 1308 in bladder wall and more than five times lower in tumor biopsies. These genes, marked with bold (Table 1), include keratins (7 genes) encoding proteins like keratins type II, 4, and 6. Another prominent group are the genes encoding proline-rich proteins (5 genes). These gene expressions can be used to monitor the amount of bladder wall present in a given biopsy of tumors. The tumor biopsy 879-1 obviously has a larger bladder wall component than the other biopsies, as it contains keratin 13 and several other highly expressed bladder wall mRNAs at a low level, but higher than the other specimens (Table 1).

An interesting result was the S100 calcium binding protein A7 gene transcript that was highly expressed in bladder wall and totally absent from the other biopsies (also absent from a number of other examined tumor biopsies from bladder). As all samples were collected with the same procedures, it indicates that this expression is either individual and occurred by chance in the patients from whom we removed the bladder wall biopsies, or, more likely, that the presence of urothelial RNAases degrade this transcript very fast.

Bladder tumors have a reduced intercellular cohesion, and easily disintegrate into single cell solutions. To eliminate bladder wall cells from the urothelial tumor cells, five tumors were disintegrated into single cell solutions before extraction of RNA, and compared to three tumors where RNA was extracted from the biopsy directly. We expected that this disintegration procedure might lead to an enrichment of tumor cells and loss of connective tissue cells. Examination of genes highly expressed in bladder wall (Table 2A),

showed a similar expression in single cell solutions of bladder tumor cells compared to biopsies. However, the level was much lower than seen in the bladder wall and raised the question whether the expressed RNAs originate from the bladder wall or from the urothelial cells.

5 To answer this question we examined the expression of genes expected to be present in bladder wall (Table 2B). Some of these genes were expressed in the bladder tumor samples, and probably indicate the presence of bladder wall components in these. It was striking that the single cell solutions contained much lower expression levels of these genes compared to the biopsies
10 ($p < 0.004$). Although the number of examined tumors was small this indicates that preparation of single cell solutions may reduce the presence of bladder wall cells in the samples. The absence of keratin 8 in the bladder wall sample demonstrated that this sample was devoid of urothelial cells (Table 2B).

 The genes known to be related to the bladder wall components, showed
15 a variable level throughout the samples. Some genes like myosin light chain 2 gene, fibroblast tropomyosin gene and alpha-1 collagen type IV gene, were generally more expressed in the tumor samples than the other genes (Table 2B). We hypothesize that this may reflect that there is a differential expression of genes in the connective tissue component that inevitably is included in a
20 tumor biopsy, an expression that may deviate from the one found in the bladder wall further away from the tumor. An example of this differential expression in bladder wall was the presence of transcript from the myosin light chain gene in the tumor samples but not in the bladder wall biopsies (Table 2B).

 In tumors many important events take place in the non-epithelial
25 compartment. Tumors need a connective tissue support, they need blood vessels, they interact with the immune system and have intercellular signaling with various sorts of other cells in a complicated way that has not yet been clarified in detail. Gene expression originating from the non-epithelial compartment contributes to the expression profile of a tumor, and might be of
30 great importance in relation to the clinical outcome and therapeutic response of the tumor.

EXAMPLE 3

Expression profiling of tumor pools to assess individual tumor heterogeneity.

We expected tumors from the same pathology stage and grade to have a more similar gene expression than tumors from different stages and grades. This was the case; however, these differences were not striking, and there were exceptions. Based on this we hypothesized that, a given tumor scored by a pathologist at light microscopy to be similar to another one may actually represent tumors with a remarkably different gene expression. The reason for this could be that tumors do not progress from a well defined stage to another well defined stage, but rather that a continuous change is taking place at the expression level -- which is then only partly reflected by morphology.

We tested this hypothesis by examining the expression which differed between a pool of tumors from a given stage and a single tumor, to see whether the differentially expressed genes were linked to a certain stage or whether they were a random deviation. It was evident that tumor expression that deviates from the pool systematically have expressions belonging to either a lower or a higher stage, or both, or unique expressions not seen in the pool (Fig. 3). The low stage Ta tumor had 43 genes whose expressions were increased or decreased similar to the ones seen in a Stage 2 grade IV tumor pool, and only three expressions that were altered in the opposite direction of stage 2 grade IV. The stage 2 grade IV tumor had 33 genes whose expression was either increased or decreased similar to the ones seen in the Ta superficial tumor pool, and only 8 genes altered in the opposite direction. In the T2 grade III tumor, gene expressions that were increased or decreased similar to the superficial or the grade IV invasive pool could be found. Furthermore some gene expressions were only low in this grade III tumor, and higher in both superficial and grade IV tumor pools. The clinical information on the examined single tumors (Table 3) paralleled the expression findings as the intermediate grade III tumor was the first muscle invasive tumor in a patient who had had a superficial tumor five months earlier. It seems that this tumor has not reached the level of malignancy as seen in the other invasive tumor. The latter was of

grade IV, and was a big solid tumor with muscle invasion at first visit. The superficial Ta tumor was the fifth recurrence and was followed by two new recurrences 64 and 159 days later--also of superficial nature.

5 The genes that were identified in lower stage and grade tumors and shown to be similar to the expression in high stage tumors are listed in Tables 4A and 4B. These genes may "signal" a higher stage or grade, or represent a transition from low stage or grade to high stage or grade. To aid in avoiding interpreting bladder wall expression as tumor cell-specific expression, the expression level in bladder wall is listed in Tables 4A and 4B. Two columns
10 are shown which simulate an increase in bladder wall content to 20% and 50% of the sample. These columns were obtained by adding a 20% or 50% contribution from the "bladder wall" column to the appropriate remaining percentage contribution (80% or 50%) from the TaGrII Pool column. Single tumor expression level (column labeled "Ta single tumor") was interrogated in
15 this context. Expression levels which are unlikely to be due to bladder wall contamination are shown in bold; other expressions are shown in regular font. We believe this procedure is useful and leads to reliable conclusions.

These genes form a complex group of genes with highly different functions. It is not totally unexpected that mucin synthesis is changed, nor that
20 cytokeratin 15 is decreased when moving from Ta and to higher stage. The gene expressions which signal a higher grade of atypia in already invasive grade III tumors are, among others, immunology related genes. This may indicate that the more atypical cells are either surrounded by inflammatory cells, or that the tumor cells start synthesizing these proteins. Further investigation is needed
25 to elucidate this point, and these proteins will be an interesting parameter to follow in relation to clinical course in the future. The strong up-regulation of cathepsin B may indicate an increased proteolytic attack against the connective tissue.

30 The cause of the changed expression is unknown and could be either a transcriptional regulation or secondary to gain or loss of chromosome material. Both mechanisms are known to occur in cancer cells.

EXAMPLE 4

Change of transcript level during the progression of bladder cancer.

Biopsies from human bladder tumors were analyzed as single tumors or as pools of tumors representing the different stages in the progression of the bladder cancer disease. We used a total of 5 single tumors and 4 tumor pools, each pool made by combining six tumors. To generate a normal reference material, we pooled biopsies from normal bladder mucosa from 35 volunteers. The biopsies were disintegrated into single cell solutions immediately after removal, filtered and snap frozen in guanidinium isothiocyanate. From the cell solutions RNA was extracted, reverse transcribed to cDNA and the cDNA transcribed into labelled cRNA, that was incubated on the chip cartridges followed by scanning and scaling to a global chip intensity amounting to 150 units per probe set. The scaling made it possible to compare individual experiments to each other. To verify the reproducibility, double determinations were made in selected cases and showed a good correlation (Fig. 4A).

We compared gene expression at three different steps in the progression of bladder cancer to each other by the use of the normal pool as a reference. A scatter plot of the noninvasive pTa grade one tumor and the invasive highly abnormal grade four pT2+ tumor showed a minor subfraction of the gene transcripts to deviate much from those in the normal urothelium. The large majority of transcripts were within a narrow range in both tumors and normal urothelium (Fig. 4B,C). The number of deviating genes was higher in the most abnormal tumor.

We then analyzed transcripts that showed alterations larger than five-fold, when comparing three different pools representing the transition from normal urothelium to superficial tumor, and further on to invasive transitional cell carcinomas (TCC). The method applied consisted in a probe-to-probe comparison (20 probes per gene) based on the software GeneChip® Analysis Suite 3.1 from Affymetrix, Inc. Increased levels indicate that the transcript is either upregulated at the stated level or turned on *de novo* reaching a given fold above the background level. Decreased levels in a similar way indicate

reduction or loss of transcript. Alterations of a single transcript during the progression of the bladder cancer disease can follow several different pathways (Fig. 6). Some of the transcript changes reflect the transition from normal cells to tumor cells, and are grouped as *TCC related genes* (Fig. 6A, B). A distinct feature of group A was the presence of 6 smooth muscle related genes. Others are altered only in superficial tumors, not in invasive tumors, and are grouped as *Bladder papilloma related genes* (Fig. 6C, D). Group C, with downregulated genes, contained 15 immunology-related genes. Group D contained a variety of genes encoding proteins with different functions. Finally some genes only showed an alteration in invasive tumors and are grouped as *Invasive TCC related genes* (Fig. 6E, F). The genes in group E encoded functionally unrelated proteins, whereas group F contained 5 immunology-related genes. Thus, it seemed possible to define groups of genes whose expression level is associated with the stage of bladder tumors.

EXAMPLE 5

Cluster Analysis

The level of a gene transcript during disease progression can be thought of as a pattern that can be correlated to patterns of other gene transcripts. If the expression of one gene is very similar to the expression of another gene in several samples they are a correlated pair of genes. This pair of genes can then be correlated to other genes with a similar transcriptional behavior in the set of tissues examined, and together these constitute a gene cluster. In the next step the relation between clusters is established and a dendrogram of genes is formed, in which strongly correlating gene clusters are near each other. The principles are described in Eisen et al., Proc. Natl. Acad. Sci. USA 95, 14863 (1998). Briefly, each gene vector was placed in its own cluster, where the cluster prototype was set to the gene vector. All pair-wise vector angles between cluster prototypes were calculated. The smallest vector angle was identified, and those clusters were merged as a weighted average of the two prototypes (and also a weighted average of all the gene vectors each prototype represented). The vector angles were then updated between the newly merged

clusters and the merger process was repeated. The final clusters are displayed in the order in which they were merged.

Exactly the same procedure used to cluster genes can be used to cluster the tissue samples, showing the relation between the different tissues based on their gene expression. We based clustering analysis on either the 4067 transcripts being scored as present in at least one of the samples, or based on those 400 transcripts (see Table 9) that covaried best with a weighting scheme adding increasing values to increasing stages.

The scaled AvgDif measures as calculated by the Affymetrix software were extracted for the normal pool and each of the graded tissues. Only the 4067 genes with an AbsCall of P (present) in at least one of the tissues were considered. All AvgDif measures below 20 were set to 20. For each tissue and each gene, the AvgDif from the normal pool was either subtracted, to define the "absolute difference," or divided and natural logarithm applied to define the "log-fold" relative measure. The relative expression measures for each tissue (log-fold or absolute difference) were used to cluster tissues by a hierarchical method using the Euclidean distance between tissues. Tissue dendrograms were constructed with the PHYLIP program using clustering order and distances. A weighting scheme (see Example 6) for the seven observed stages and grades of cancer was used to select 200 positively covarying and 200 negatively covarying genes with respect to progression. The same hierarchical method and a normalized Euclidean distance (vector angle) were used to cluster the top 400 positively and negatively covarying genes for both relative expression measures. Gene dendrograms were constructed by the same method as for the tissue dendrograms.

Tissue clusters

Different algorithms based on either fold change or absolute differences in transcript levels across the different samples were applied to all transcripts or only those covarying with a progression scale. Both methods were able to cluster the tissues according to the tumor's or tumor pools stage and grade of atypia in a meaningful way (Fig. 5). The two noninvasive and the two invasive

pools each clustered very closely together both using the fold change and the absolute difference, indicating a close genetic relation between these, and indicating that one effect of pooling samples is a reduction of the variation in gene expression. The single tumor preparations showed a more varied
5 distribution but still reflected the stage of the tumor. In the log-fold dendrograms (Fig. 5A, C) the superficial tumors 335, 837 and 901 cluster close to the superficial pools, but the pTa grade III tumor 901 seems closer to the superficial pools than the pTa grade II tumor 837. This may either be due to the variation in histopathological grading or due to the tumors having different
10 genetic properties. The minimally invasive pT1 grade III tumor 320 is correctly placed in between the muscle invasive and the superficial tumors, and the muscle invasive tumor 713 is placed very close to the pools of pT2+ tumors. Tumor 713 seemed to be closer to the pT2+grade IV than Grade III pool although it was histopathologically scored as grade III. In the absolute
15 difference dendrogram (Fig. 5B, D) the superficial tumors 837 and 901 are closely related to the superficial pools, the pT1 superficially invasive tumor is less related and finally the invasive tumor 713 located closest to the invasive pools. An exception was the superficial tumor pTa grade I, 335-6 that deviated from all other tumors. Whether this tumor has unique properties is unknown,
20 however it did not deviate from the expected location in the dendrograms based on fold change.

The dendrograms show that the clustering algorithms work very well, that the dataset obtained from the oligonucleotide arrays reflect the biological properties of the tumors, and that objective information on a tumor's stage and
25 grade can be obtained from mathematical analysis of gene expression data. Furthermore, it is seen that when ranking based on covariance to the progression is used to extract the top 10% covarying genes, these have a dendrogram that is almost identical to the one based on 4067 genes. We therefore used the ranking procedure when analyzing gene clusters.

Gene clusters

The data obtained from cluster analysis are presented as colored images in which genes with similar expression patterns are clustered next to each other on the vertical axis and the samples according to stage and grade on the horizontal axis (Fig. 7). The color of each cell in the tabular image represents the ratio between the sample expression of the gene in question and the expression in normal urothelium. The color saturation is directly proportional to the magnitude of the measured expression ratio, cyan indicating the lowest ratio, yellow indicating the highest ratio. Black indicates a ratio of one, a similar level of expression in tumor as in normal urothelium. The two different clustering methods, log-fold and absolute difference gave completely different clusters across the set of samples (Fig. 7).

In the log-fold based cluster analysis, the top 200 positively covarying genes can be divided into five different clusters containing functionally related genes (Fig. 7, left upper column). The cluster shown at the top contains genes related to cell proliferation such as cyclins A and E, PCTAIRE-1, and SWI/SNF. The next cluster mainly contains oncogenes and growth factors. Genes in both these clusters are expressed at a level close to that seen in normal urothelium in superficial tumors (black) and increase during disease progression (yellow). The two clusters at the lower part show a reduced expression level in the superficial tumors compared to normal (cyan) and then an increase above the normal urothelial level in invasive tumors (shades of yellow). These clusters contain a set of immunologically related genes, like different MHC's and immunoglobulins, cancer related genes like src-like kinase and Fas/Apo-1, and finally another immunologically related cluster at the bottom.

The 200 negatively covarying genes (Fig. 7, left lower column) could be divided into three different clusters based on log-fold change and function of the genes. The upper cluster contains genes related to cell adhesion like laminins, integrins and P-cadherin (Fig. 7, left lower column). They all show a reduced level of expression in the invasive tumors as evidenced by the cyan

coloring to the right. The small middle cluster contains four genes related to transcription, and finally the lowest cluster in the figure contains five proteinases, like cathepsin E (two different probe sets for the same gene) and metalloproteinase as well as a protease inhibitor. The lower clusters are characterized by an increase in level in superficial tumors (yellow) followed by a reduction to a level below normal urothelium in invasive tumors.

In the absolute difference based cluster analysis the top 200 covarying genes that showed a positive covariance contained only few clusters having a functional relation. The upper cluster (Fig. 7, right upper column) contained five genes related to cell proliferation like the microtubule-associated protein and oncoprotein 18/stathmin. The next cluster was a set of immunology related genes like MHC and LERK-2. Both these clusters showed an increased expression level in invasive tumors compared to normal urothelium. The cluster at the lower end of the figure showed a reduced level in superficial tumors and a return to normal or increased level in invasive tumors. This cluster contained many immunology-related genes like MHC, HLA and immunoglobulin genes. Finally, for genes that showed a negative covariance based on absolute difference (Fig. 7, right lower column), this was mainly due to clustering of ribosomal genes. A very tight cluster in the middle of the graph show ribosomes that are upregulated in expression in superficial tumors and downregulated or unaltered in invasive tumors. The middle ribosomal cluster is generally expressed at a lower level than in normal urothelium, whereas the cluster at the bottom of the figure is similar to the one in the middle. Other genes that seemed to cluster were a small tight cluster of immunology related genes, and two tumor inhibitors, TGF-beta superfamily protein and Sui1 in the uppermost cluster.

Thus, a pattern of altered gene transcription occurs during the progression of bladder cancer that involves a number of genes belonging to functionally different gene families. Cluster analysis identified many biologically relevant genes, and in that aspect was superior to the probe-by-probe comparison described above.

MISSING AT THE TIME OF PUBLICATION

where
$$dp(X,Y) = \sum_{i=1}^n (x_i \times y_i)$$

and
$$len(X) = \sqrt{\sum_{i=1}^n x_i^2}$$

After the sample had been compared in this way to each pool, invasive and non-invasive, the pool which differed from the sample by the smaller angle was
5 determined to be the class of the sample.

Samples from ten bladder tumors were assigned by the classifier, and the results are shown in Fig. 8. The classifier was able to correctly call the presence or absence of muscle invasion in all ten samples examined (7 non-muscle invasive, 3 muscle invasive), based on categorizations made by a
10 pathologist. To cross-validate the classification methodology, two non-invasive (Ta) and two invasive (T2) pools were compared with tumors from each of 10 patients. Since two pools were available for each stage, four possible combinations (classifier sets) of one Ta pool and one T2 pool were tested. The classification rate was calculated as the number of tumors correctly
15 identified times 10. The results for each of the four classifier sets were averaged to obtain the data shown in Fig. 8.

EXAMPLE 7

Confirmation of microarray expression analysis by Northern blotting

In order to confirm the array data, Northern blotting was performed on
20 the same samples of RNA as used for array hybridization. A standardized amount of RNA was run in each lane, followed by blotting with a labelled RNA probe, and quantitation of the band obtained (Fig. 9).

Total RNA, 0.5–4 µg per lane, was separated in 1.5% agarose-formaldehyde gels, transferred onto Zeta-Probe® nylon membrane (Bio-Rad)
25 by positive pressure (Posiblottter, Stratagene) and immobilized by baking for 20 min at 120°C. The filters were hybridized with digoxigenin- labelled (DIG) RNA transcribed from 600-1000 bp PCR products containing a T7 promotor

incorporated via the antisense primers. Filters were hybridized with 10 ng probe per ml of ultrahyb™ hybridisations solution at 68°C for 16 h and washed to a stringency of 0.1x SSC at 68°C. Specific hybridization was detected by reacting the membrane with monoclonal anti-DIG antibodies conjugated with alkaline phosphatase, incubating with ECF chemifluorescence substrate (AmershamPharmacia) and scanning on a Storm 840 (Molecular Dynamics). The hybridization signals were quantified with ImageQuant 5.0 software.

As can be seen from the plots, the oligonucleotide array and the Northern blot gave similar results with the different probes, both in genes expressed at a high level (beta2-microglobulin), and those expressed at a very low level (CD59).

EXAMPLE 8

Immunohistochemical localization of expressed proteins

The biopsy samples used to study gene expression in bladder tumors contain cells other than urothelial cells, although the amount of other cells should be limited due to the use of single cell solutions. We therefore used immunostaining of tissue sections from the single tumors examined to determine which cells expressed the protein encoded by the transcript in question. We used the transcript levels to select a group of proteins supposed to show variation from sample to sample, making possible a rough correlation between level of protein detected and intensity of the transcript on the microarray.

Four µm sections were cut from paraffin-embedded tissue blocks, mounted, and deparaffinized by incubation at 80°C for 10 min, followed by immersion in heated oil at 60°C for 10 min (Estisol 312, Estichem A/S, Denmark) and rehydration. Antigen retrieval was achieved in TEG (Tris-EDTA-Glycerol) buffer using microwaves at 900 W. The tissue sections cooled in the buffer for 15 min before a brief rinse in tap water. Endogenous peroxidase activity was blocked by incubating the sections with 1% H₂O₂ for 20 min, followed by three rinses in tap water, 1 min each. The sections were then soaked in PBS buffer for 2 min. The next steps were modified from the

descriptions given by Oncogene Science Inc., in the Mouse Immunohistochemistry Detection System, XHCO1 (UniTect, Uniondale, NY, USA). Briefly, the tissue sections were incubated overnight at 4°C with primary antibody (against beta-2 microglobulin (Dako), cytokeratin 8, cystatin-C (both from Europa, US), junB, CD59, E-cadherin, apo-E, cathepsin E, vimentin, IGFII (all from Santa Cruz), followed by three rinses in PBS buffer for 5 min each. Afterwards, the sections were incubated with biotinylated secondary antibody for 30 min, rinsed three times with PBS buffer and subsequently incubated with ABC (avidin-biotinylated horseradish peroxidase complex) for 30 min, followed by three rinses in PBS buffer. Staining was performed by incubation with AEC (3-amino-ethylcarbazole) for 10 min. The tissue sections were counter stained with Mayers hematoxylin, washed in tap water for 5 min. and mounted with glycerol-gelatin. Positive and negative controls were included in each staining round with all antibodies.

We found several of the proteins to be expressed not only by urothelial cells but also by leukocytes, endothelial cells or histiocytes (Table 10, Fig. 10). Of the examined proteins only keratin 8 and ApoE were confined to urothelium; the other proteins were also present in other cell types. Based on the assumption that transcript and protein originates from the same cell, this clearly indicates that conclusions on the origin of the transcripts requires a histological examination, or other verification procedure. The amount of stroma in a biopsy, the vascularization (amount of endothelial cells), the level of leukocyte infiltration, and the grade of atypia of the urothelial cells were all parameters that seemed to influence the level of a given transcript.

The level of protein identified by immunostaining, disregarding the cell type expressing the protein, correlated well with the transcript level measured on the microarray (Fig. 10). However, no attempt was made to quantitate the immunostaining due to the often large heterogeneity in staining across the sections.

Table 1

Gene name	Description	Con Tissue	8733.2	8733.1	8739.1
		Bladder Wall	T ₁ q _{III}	T ₂ q _{III}	T ₂ q _{IV}
Structural proteins					
X07893_at	Human mRNA for cytokeratin 4 C-terminal region	4000	20	20	20
L42601_f_at	Homo sapiens keratin 5 isoform K5c (KRT5C) gene	1458	37	37	37
L42583_f_at	Homo sapiens keratin 6 isoform K6a (KRT6A) gene	3153	183	126	389
V01516_f_at	Human messenger fragment encoding cytoskeletal keratin (type II) mRNA from cultured epidermal cells	4939	125	153	388
X00351_f_at	Human mRNA for beta-actin	4779	140	175	364
M10277_s_at	Human cytoplasmic beta-actin "gene," complete cds	4186	2578	1189	1322
HG2815-HT4023_s_at	"Myosin," Light "Chain," "Alkali," Smooth Muscle "T(Gb.U02629)," "Smooth Muscle," "Art. Splice 2"	3789	3321	3768	1830
HG2815-HT2931_f_at	"Myosin," Light "Chain," "Alkali," Smooth Muscle "T(Gb.U02629)," "Non-Muscle," "Art. Splice 2"	3415	3458	4176	2003
X67683_at	H sapiens mRNA for keratin 6 type-X67683 type-mRNA	2265	3687	4140	2018
L42611_f_at	Homo sapiens keratin 6 isoform K6a (KRT6A) "mRNA," complete cds	2126	126	180	193
HG2815-HT2931_s_at	"Myosin," Light "Chain," "Alkali," Smooth Muscle "T(Gb.U02629)," "Non-Muscle," "Art. Splice 2"	1946	301	228	224
M05787_at	Human 221Da smooth muscle protein (SM22) "mRNA," complete cds	1926	1594	2811	1178
M55988_s_at	Human alpha-1 collagen type I "gene," "3' end"	1735	68	316	2326
M21389_at	Human keratin type II (58 kD) "mRNA," complete cds	1610	425	4219	1874
X13839_at	Human mRNA for vascular smooth muscle alpha-actin	1572	20	20	611
		1405	20	329	1164
Metabolic, catabolic, and anabolic enzymes					
U46632_maf_at	Human cystatin B gene, complete cds	10030	859	463	1697
X01877_f_at	Human liver mRNA for glyoxaldehyde-3-phosphate dehydrogenase "T(G3PD," EC 1.2.1.12)"	3234	3018	3048	1084
D78381_at	Human mRNA for ornithine decarboxylase "antizyme," ORF 1 and ORF 2	2518	2151	2373	4422
U46689_maf_at	Human ubiquitin gene, complete cds	2053	2902	2621	3237
M66400_at	Human phosphatase A2 "mRNA," complete cds	1653	1320	1048	1051
M24485_s_at	Homo sapiens (clone pHGST-pI) glutathione S-transferase pi (GSTP1) "gene," complete cds	1522	2457	1493	544
M26860_at	Human ubiquitin "mRNA," complete cds	1506	599	908	1072
M63138_at	Human cathepsin D (catD) gene	1489	895	1131	1990
X77584_at	H sapiens mRNA for ATL-derived factor/thiosuccin	1470	815	713	568
X02152_at	Human mRNA for lactate dehydrogenase-A "LDH-A," EC 1.1.1.27	1432	1478	491	1173
M27891_at	Human cystatin C (CST3) gene	1363	1026	730	2233
X58997_maf_at	Human Uba52 gene coding for ubiquitin-52 amino acid fusion protein	1308	1414	1298	1637
Proteins related to transcription and translation					
Z12982_at	H sapiens mRNA for homologue to yeast ribosomal protein L41	7468	6785	8449	8798
X89150_at	LOC432 H.sapiens mRNA for ribosomal protein S18	6256	6392	4994	2859
L06499_at	Homo sapiens ribosomal protein L37a (RPL37A) "mRNA," complete cds	8064	6641	6648	4138
L04683_s_at	Human ribosomal protein S21 (RPS21) "mRNA," complete cds	5632	10817	9082	2846
D23680_at	Human mRNA for ribosomal "protein," complete cds	5345	4337	4331	5096
J04817_s_at	Human elongation factor EF-1-alpha "gene," complete cds	4835	6965	7517	2180
X17208_at	Human mRNA for LLR3p3	4828	9042	8931	4029
U14969_at	Human ribosomal protein L28 "mRNA," complete cds	4339	4906	3477	4979
M60854_at	Human ribosomal protein S16 "mRNA," complete cds	4473	5801	5019	4247
HG2873-HT3017_at	Ribosomal Protein L30 Homolog	4372	8812	7949	4102
M81757_at	H.sapiens S19 ribosomal protein "mRNA," complete cds	4369	6727	4087	4311
U14973_at	Human ribosomal protein S29 "mRNA," complete cds	4281	5175	4134	4410
HG3364-HT3541_at	Ribosomal Protein L37	4242	7295	4338	3574
X03689_s_at	Human mRNA fragment for elongation factor TU (N-terminus), fgb=X03689 rtype=RNA	4233	6855	4191	1506
X56932_at	H.sapiens mRNA for 23 kD highly basic protein	4210	6461	5730	5089
X80622_at	H.sapiens mRNA for ORF	3963	4047	3534	3591
U14970_at	Human ribosomal protein S5 "mRNA," complete cds	3928	4473	2410	2569
U14968_at	Human ribosomal protein L27a "mRNA," complete cds	3885	3772	3079	4104
X03342_at	Human mRNA for ribosomal protein L32	3818	5824	4184	3384
X67247_maf_at	H.sapiens rps8 gene for ribosomal protein S8	3725	3928	2702	3155
U14972_at	Human ribosomal protein S10 "mRNA," complete cds	3695	6292	2894	2903
M17885_at	Human acidic ribosomal phosphoprotein P0 "mRNA," complete cds	3690	4911	4728	5335
HG1800-HT1823_at	Ribosomal Protein S20	3582	3589	3908	4271
M7888_at	Human acidic ribosomal phosphoprotein P1 "mRNA," complete cds	3488	3038	3138	2648
X06817_at	Human mRNA for ribosomal protein S11	3387	4581	4705	3744
X15940_at	Human mRNA for ribosomal protein L31	3375	8980	5371	3528
U12485_at	Human ribosomal protein L33 "mRNA," complete cds	3327	5075	2106	3004
M18000_at	Human ribosomal protein S17 "gene," complete cds	3315	6115	4537	2410
X83527_at	H.sapiens mRNA for ribosomal protein L19	3282	5748	4830	1832
M13934_cds2_at	Human ribosomal protein S14 gene, complete cds	3281	3512	1927	2578
M04718_at	Human ribosomal protein S25 "mRNA," complete cds	3228	2527	2087	3181
M14199_s_at	"Human laminin receptor (2H9 epitope) "mRNA," "3' end"	3222	8318	6902	1912
L06505_at	Human ribosomal protein L12 "mRNA," complete cds	3024	4981	3541	2787
X73480_at	H.sapiens mRNA for ribosomal protein L3	2949	2230	1849	2458
X62691_at	H.sapiens mRNA for ribosomal protein (homologous to yeast S24)	2885	3540	3732	1534
U14971_at	Human ribosomal protein S9 "mRNA," complete cds	2645	1907	1361	2603
M77232_maf_at	Human ribosomal protein S6 gene, complete cds and flanking regions	2616	1948	1982	2470
X79234_at	H.sapiens mRNA for ribosomal protein L11	2602	2298	2184	2790
U09953_at	Human ribosomal protein L9 "mRNA," complete cds	2506	2840	2851	1911
X55954_at	Human mRNA for HL23 ribosomal protein homologue	2495	5371	3501	2681
Z26878_at	H.sapiens gene for ribosomal protein L38	2480	4036	2416	2159
M32053_at	Human H19 RNA "gene," complete cds (spliced in situ)	2486	6187	2945	320
L38941_at	Homo sapiens ribosomal protein L34 (RPL34) "mRNA," complete cds	2460	4226	2950	2004
Z28407_at	H.sapiens mRNA for ribosomal protein L8	2386	2775	1342	1797
Z49148_s_at	H.sapiens mRNA for ribosomal protein L29	2303	4080	2201	1028
X84707_at	H.sapiens BBC1 mRNA	2268	2402	2224	2230
M31520_maf_s_at	Human ribosomal protein S24 mRNA	2242	8267	4925	1409
D14530_at	Human homologue of yeast ribosomal protein "S28," complete cds	2193	2112	1861	945
HG821-HT821_at	Ribosomal Protein S13	2158	1987	1440	1700
M38072_at	"Human ribosomal protein L7a (surf 3) large subunit "mRNA," "complete cds"	2150	8188	2380	1000
U58682_at	Human ribosomal protein S28 "mRNA," complete cds	2129	3034	1970	1929
X89391_at	H.sapiens mRNA for ribosomal protein L6	2094	2706	2790	1187
HG33-HT33_at	Ribosomal protein S4	2077	1656	1078	1277
A0002533_at	Human mRNA for "Osp1," complete cds	2063	2155	1707	3217
M55409_s_at	"Human pancreatic tumor-related protein "mRNA," "3' end"	1992	4150	1919	815
L19527_at	Homo sapiens ribosomal protein L27 (RPL27) "mRNA," complete cds	1991	3103	2261	2052
HG4319-HT4589_at	Ribosomal Protein L5	1960	2281	1600	1370
X53777_at	Human L23 mRNA for putative ribosomal protein	1915	3100	2330	1075
M31520_at	Human ribosomal protein S24 mRNA	1876	2419	2367	1416
HG613-HT613_at	Ribosomal Protein S12	1873	2156	2000	1145
X53715_at	Human Hums3 mRNA for 40S ribosomal protein s3	1744	2569	2109	843
D78209_at	Human mRNA for ribosomal protein "L39," complete cds	1639	2212	1743	566
X51345_at	Human jun-B mRNA for JUN-B protein	1446	150	330	721
D87735_at	Human mRNA for ribosomal protein "L14," complete cds	1439	1990	1508	1358
X57959_at	H.sapiens mRNA for ribosomal protein L7	1426	1798	1880	569
HG384-HT384_at	Ribosomal Protein L26	1409	2436	1347	1144
L11566_at	Homo sapiens ribosomal protein L12 (RPL12) "mRNA," complete cds	1399	1875	1204	1144
HG4542-HT4542_at	Ribosomal Protein L10	1378	3325	1729	1506
L26747_at	Homo sapiens uL10a1 "mRNA," complete cds	1375	1812	1521	1099
X52966_at	Human mRNA for ribosomal protein L35a	1361	1280	510	1415

Proteins involved in posttranslational modification				
Z23090_at	H sapiens mRNA for 28 kDa heat shock protein	9309	20	939
S79522_at	Juikutin carboxyl extension protein [human," mRNA," 540 nt]	3161	8889	5541
U12404_at	Human C1a-19 "mRNA," complete cds	2522	2900	1894
X68277_at	H sapiens CL 100 mRNA for protein tyrosine phosphatase	1372	71	165
X52851_mn1_at	Human cyclophilin gene for cyclophilin (EC 5.2.2.18)	1727	1798	2284
Cell membrane proteins				
D00017_at	Human lipocortin 4 mRNA	2387	1068	1191
M33560_at	Human 26-kDa cell surface protein TAPA-1 "mRNA," complete cds	1423	1013	1244
Secreted proteins/hormones/growth factor related proteins				
M17733_at	Human thymosin beta-4 "mRNA," complete cds	2774	3792	4130
Proteins related to immunology				
M83438_s_at	"Human Ig rearranged gamma chain "mRNA," V-J-C region and complete cds"	4579	20	5838
J00105_s_at	"Human beta-2 microglobulin gene "mRNA," 3' end"	3664	2784	6031
M87789_s_at	"Human (hybridoma H210) anti-hepatitis A IgG variable "region," constant "region," complementation	3447	20	3373
M42184_at	Human MHC protein homologous to chicken B complex protein "mRNA," complete cds	3378	2880	1904
D49824_s_at	Human HLA-B null allele mRNA	2821	1098	1448
X00270_at	Human gene for HLA-DR alpha heavy chain e class II antigen (immune response gene) of the major I	2780	429	2284
S82297_at	"beta 2-microglobulin (11bp deleted between nucleotides 98-99) "mRNA," colon cancer cell line "H-	2360	1125	3442
M34516_at	Human omega light chain protein 14.1 (Ig lambda chain related) gene	2235	137	1422
M84526_at	Human adipsin/complement factor D "mRNA," complete cds	1875	20	145
S71043_mn1_s_at	Ig alpha 2+immunoglobulin A heavy chain allotype 2 (constant "region," germ line) [human," peripher	1473	54	723
M57710_at	Human IgE-binding protein (epsilon-BP) "mRNA," complete cds	1449	1184	1215
Nucleoproteins				
M84711_at	Human v-fos transformation effector protein (F1e-1)," mRNA complete cds	3851	3581	2942
U43901_mn1_s_at	Human J7 kD laminin receptor precursor/p40 ribosome associated protein "gene," complete cds	2812	8290	3353
D13413_mn1_s_at	Human mRNA for tumor-associated 120 kDa nuclear protein "p120," partial cds(carboxyl terminus)	2851	4033	5077
M32405_at	Human homologue of rat insulinoma gene ("ig)," exon 4-Jun	2005	1973	1418
M11353_at	Human H3.3 histone class C "mRNA," complete cds	1697	1853	3281
M23813_at	Human nucleophosmin "mRNA," complete cds	1448	1117	1338
X03827_at	Y box binding protein-1 (YB-1) mRNA	1439	1139	1225
Mitochondrial proteins				
Z70759_at	H sapiens mitochondrial 16S rRNA gene (partial) Jgb=Z70759 Jmtype=rRNA	7648	3970	5895
X15341_at	Human COX VIa-L mRNA for cytochrome c oxidase liver-specific subunit VIa (EC 1.9.3.1)	1338	1580	1649
Other proteins				
M26311_s_at	Human cystic fibrosis antigen mRNA, complete cds	15733	1713	381
M88757_s_at	S100 Calcium binding protein A7	10368	20	20
L05187_at	"Homo sapiens small proline-rich protein 1 (SPRR1A) "gene," complete cds"	6544	64	104
L10343_at	Human elastin "gene," complete cds	5388	20	39
D88472_at	Human DNA for cystatin A	5167	52	114
HG3214-HT3391_at	Metastopostemulin 1	4966	9358	4730
M21005_at	Human migration inhibitory factor-related protein 8 (MRP8) "gene," complete cds	4930	20	20
X16064_at	Human mRNA for transcriptionally controlled tumor protein	4572	3638	3080
L05188_f_at	"Homo sapiens small proline-rich protein 2 (SPRR2B) "gene," complete cds"	4485	59	20
M19988_at	"Human small proline rich protein (sprt) "mRNA," clone 128"	4441	20	20
X53065_f_at	Human SPR2-1 gene for small proline rich protein (exon 2)	4285	117	33
X98482_f_at	H sapiens THN12 gene exon 11 Jgb=X98482 Jmtype=DNA Jannot=mRNA	3885	3603	2730
HG3548-HT3751_at	Wilm's Tumor-Related Protein	3843	3170	2728
M20030_f_at	"Human small proline rich protein (sprt) "mRNA," clone 830"	3809	20	28
X78223_s_at	H sapiens MAL gene exon 1 (and joined CDS).	3490	20	20
X06908_at	Human mRNA for apocortin	3217	182	283
M11147_at	Human ferritin L chain "mRNA," complete cds	3172	7843	8176
X57348_s_at	H sapiens mRNA (clone 9712)	3031	20	52
V00594_s_at	Human mRNA for metallothionein from cadmium-treated cells	2805	1553	1408
U06155_s_at	Human chromosome 1q subtelomeric sequence D1S553, Jgb=U06155 Jmtype=DNA Jannot=CDS	2575	7538	6245
M94856_at	Human fatty acid binding protein homologue (FA-FABP) "mRNA," complete cds	2525	166	375
Y07755_at	H.sapiens S100A2 "gene," exon "1," 2 and 3	2378	27	47
U78027_mn3_at	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-His ribosomal p2	2156	3154	2439
D38383_at	Human mRNA for "calcizem," complete cds	2101	1427	1223
X57351_s_at	Human 1-8D gene from interferon-inducible gene family	1945	1342	2890
M38591_at	Homo sapiens cellular ligand of annexin II (p11) "mRNA," complete cds	1819	2870	1179
L20941_at	Human ferritin heavy chain "mRNA," complete cds	1771	2131	1519
M97815_at	Human retinoic acid-binding protein 4 (CRABP-4) gene	1655	123	243
X53298_s_at	H sapiens mRNA for IRAP	1652	79	66
X04470_s_at	Human mRNA for arylsulphatase (ALP) from cervix uteri	1525	20	20
X87951_at	H.sapiens mRNA for proliferation-associated gene (pag)	1472	1380	1439
HG4069-HT4339_s_at	Monocyte Chemoattractant Protein 1	1416	213	380
Y07900_at	H.sapiens mRNA for Progression Associated Protein	1399	21	26
J04152_mn1_s_at	M1S1 gene extracted from Human gastrointestinal tumor-associated antigen GA733-1 protein "gene,"	1311	325	557
S81914_at	TEX-1 recombination-inducible immediate-early gene [human," "placenta," mRNA "Partial," 1223 nt]	1310	188	190

Bladder wall compared to single cell solutions and biopsies of tumors

Gene name	Gene product	Biopsy Bladder wall	Single cell solutions			Biopsies		
			Ta Gr1	Ta GrII	Ta GrIII	T1 GrIII	T2 GrIII	T2 GrIV
LC5188_f_at	Homo sapiens small proline-rich protein 2 (SPRR2B) "gene," complete cds	4465	-	-	-	-	-	-
L10343_at	Human elafin "gene," complete cds	5388	-	-	-	-	-	310
L42583_f_at	Homo sapiens keratin 6 isoform K6a (KRT6A) gene	4939	384	348	426	-	-	388
L42601_f_at	Homo sapiens keratin 6 isoform K6c (KRT6C) gene	5155	475	391	544	-	-	389
M19886_at	Human small proline rich protein (sprl) "mRNA," clone 128	4441	-	160	-	-	-	-
M2030_f_at	Human small proline rich protein (sprl) "mRNA," clone 930	3809	-	-	-	-	-	319
M21005_at	Human migration inhibitory factor-related protein 8 (MRP8) "gene," complete cds	4930	-	-	-	-	-	611
M21389_at	Human keratin type II (58 kD) "mRNA," complete cds	1572	-	-	-	188	-	-
S81914_at	EX-1= radiation-inducible immediate-early gene	1310	-	-	-	-	-	516
V01516_f_at	Human messenger fragment encoding cytoskeletal keratin (type II).	4779	452	300	478	-	78	-
X07695_at	Human mRNA for cytokeratin 4 C-terminal region	7458	-	-	-	-	-	-
X53085_f_at	Human SPR2-1 gene for small proline rich protein (exon 2)	4285	-	-	178	-	-	-
X67683_at	H sapiens mRNA for keratin 4 /gb-X67683 /ntype=RNA	2126	-	223	154	126	160	193
X68277_at	H.sapiens CL 100 mRNA for protein tyrosine phosphatase	1972	87	78	81	71	165	343
Y07909_at	H sapiens mRNA for Progression Associated Protein	1399	-	76	114	-	-	71

Table 2A

Expression of genes related to bladder wall

Gene name	Gene product	Bladder wall	Single cell solutions					Biopsies				
			Ta Gr1	Ta Gr1	Ta Gr1	T1 Gr1	T2 Gr1	T1 Gr1	T2 Gr1	T2 Gr1	T2 Gr1	Mean
Z19554_s_at	H.sapiens vimentin gene	1186	-	-	-	422	204	334	853	674	620	
J02854_at	Human 20-kDa myosin light chain (MLC-2)	412	-	-	-	-	-	-	-	615	205	
M21812_at	Human (clone PVHLC2-24) myosin light chain 2	175	-	433	-	-	690	374	427	410	404	
U48959_at	Human myosin light chain kinase (MLCK)	621	-	-	-	-	-	-	-	617	206	
X05276_at	Human mRNA for fibroblast tropomyosin TM30 (pl)	642	261	313	294	245	139	178	283	214	225	
Z24727_at	H.sapiens tropomyosin isoform	464	55	76	98	56	59	365	468	607	480	
M12125_at	"Human fibroblast muscle-type tropomyosin"	586	-	-	-	-	-	-	-	426	142	
M19267_s_at	"Human tropomyosin"	284	-	90	-	207	-	492	313	198	334	
M63391_rna1_at	Human desmin gene, complete cds.	392	-	192	-	-	-	-	-	905	302	
M26576_cds2_at	Human alpha-1 collagen type IV gene, exon 52.	207	-	-	-	-	-	-	-	290	97	
Sum of expressed units		4869	316	1104	392	930	1092	1743	2344	4956	3014	
X74929_s_at	H.sapiens KRT8 mRNA for keratin 8		5006	2266	3494	2434	2450	2074	1423	390	1296	

Table 22

Table 3. Number of genes, out of 3400 genes examined, that are expressed as in the tumor-pool to which the tumor belongs, or altered as in a tumor pool of higher or lower stage or grade

Clinical data on tumor	5th superficial recurrence Grade II	First invasive tumor Grade III	Primary tumor, large solid muscle invasive Grade IV
Expression like tumor pool	770 genes	516 genes	625 genes
Unique to tumor	58	75	93
Increased expression similar to invasive Grade IV pool	24	47	-
Decreased expression similar to invasive Grade IV pool	19	22	-
Increased or decreased similar to Grade II	.	45	33

The lines in bold list genes that signal a higher stage or grade.

Table 4A Gene expression that signal a higher grade or stage

Gene Name	Gene Product	Ta Single Tumor	T2G/IV Pool	Deviation*	Bladder wall	20% Wall**	50% Wall**
HQ2147-IT2217r_at	Mucin "3," intestinal (Ob: M65406)	0	330	641	On	0	0
HQ880-IT880_at	Human mucin 6, gastric (single repeat clone) - human (fragment), partial CDS	0	426	493	On	0	0
Y00787_s_at	Human mRNA for MDNCF (monocyte-derived neutrophil chemotactic factor)	0	327	393	On	224	44.8
M21388_r_at	Human unproductively rearranged Ig mu-chain mRNA V-region (VD), 5' end, clone mu-3A1A	0	284	216	On	0	0
X83492_at	H.sapiens mRNA for Fas/Apo-1 (clone pCRTM11-Fasdelta(4,7))	0	238	367	On	0	0
X07696_at	Human mRNA for cytokeratin 16	328	0	0	Off	0	282.4
J06036_s_at	Human cathepsin E "mRNA," complete cds	1145	302	0	Decreased	0	916
M84424_at	Human cathepsin E (CTSE) gene	413	98	0	Decreased	0	330.4
U20734_s_at	Human transcription factor JunB (JunB) "gene," 5' region and complete cds	1250	324	0	Decreased	1069	1213.8
X69798_at	Human PRAD1 mRNA for cyclin	436	0	0	Off	63	361.4
L35263_at	Human CSAdd binding protein (CSBP1) "mRNA," complete cds	182	0	0	Off	0	129.8
M17683_s_at	Human preproinsulin-like growth factor II (IGF-II) variant "mRNA," complete cds	1663	489	0	Decreased	0	1330.4
M62403_s_at	Human insulin-like growth factor binding protein 4 (IGFBP4) "mRNA," complete cds	968	245	0	Decreased	337	841.8
M34376_s_at	Homo sapiens (clone lambda MSP131) beta-microseminoprotein (MSP) gene	280	0	0	Off	0	224
U22178_s_at	Human prolactin secretory protein 57 "mRNA," complete cds, tgc-U22178 hyper-RNA	89	0	0	Off	0	71.2
U69263_at	Human metilrin-2 precursor "mRNA," partial cds	116	0	0	Off	152	123.2
U72649_at	Human BTG2 (BTG2) "mRNA," complete cds	886	274	289	Decreased	244	767.6
U81008_at	Human p76 "mRNA," complete cds	183	0	0	Off	76	189.8
U80816_at	Human clone 23815 mRNA sequence	250	0	0	Off	31	206.2
X63578_ma1_at	H.sapiens gene for parvalbumin	176	0	0	Off	0	140.5
X78180_at	H.sapiens mRNA for lung amiloride sensitive Na+ channel protein	263	0	0	Off	266	140.8
X87159_at	H.sapiens mRNA for beta subunit of epithelial amiloride-sensitive sodium channel	188	0	0	Off	0	263.4
Y00264_at	Human mRNA for amyloid A4 precursor of Alzheimer's disease	296	0	0	Off	183	150.4
Z78693_s_at	H.sapiens mRNA for protein-tyrosine phosphatase NC-PTPDOM1	196	0	0	Off	0	272.6

Only genes scored as present are shown. *Deviation describes aberration from pool. ** 20% and 50% describes expected units of expression if tumor pool was added 20% or 50% bladder wall components. Genes in bold do not need interrogation of bladder wall contribution. Off, genes that are turned off; On, genes that are turned on.

Table 4B Gene expression that signal a higher grade or stage

Gene Name	Gene Product	T2GrIII Pool	2GrIII Single tumor	T2GrIV Pool	Grade III po	Bladder wall	20% Wall ^{pm}	50% Wall ^{pm}
X13601_at	H.sapiens gene for cytokeraatin 20	0	152	102	On	0	0	0
X03680_s_at	Human mRNA fragment for elongation factor TU (N-terminus). lgb-X03680 htype=RNA	0	1845	2092	On	4233	846.6	2118.5
X04347_s_at	Human liver mRNA fragment DNA binding protein UPI homologue (C-terminus)	0	1324	836	On	911	182.2	455.5
M21142_cds2_s_at	guanine nucleotide-binding protein G-s-alpha-3 gene extracted from Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha)	0	1106	839	On	782	166.4	391
J00106_s_at	Human beta-2 microglobulin gene "mRNA," 3' end	1137	8199	4892	Increased	3664	1642.4	2400.5
S82297_at	beta 2-microglobulin (11bp deleted between nucleotides 98- 99) "Human," colon cancer cell line "HCT," mRNA "Mutant," 416 nt	0	0	0	0	0	0	0
M34616_at	Human omega light chain protein 14.1 (lg lambda chain related) gene	818	4908	3909	Increased	2360	968.4	1489
L02328_f_at	Homo sapiens (clone Hu lambda-17) lambda-like "gene," complete cds	0	4889	6258	On	2235	447	1117.5
M63438_s_at	Human Ig rearranged gamma chain "mRNA," V-J-C region and complete cds	0	373	734	On	0	0	0
M87789_s_at	Human (hybridoma H210) and-hepatitis A IgG variable regions "mRNA," complete cds	0	1402	7075	On	4579	915.8	2289.5
S71043_ma1_s_at	lg alpha 2-immunoglobulin A heavy chain epsilon 2 (constant "region," germ line) "Human," peripheral blood "neutrophils," "Genomic," 1799 nt	0	2420	4769	On	3447	689.4	1723.5
M14483_ma1_s_at	PTMA gene extracted from Human prothymosin alpha "mRNA," complete cds	0	1175	2608	On	1473	294.6	736.5
M16662_at	Human pancreatic elastase IIA mRNA, complete cds	0	1410	948	On	641	128.2	320.5
M61832_s_at	Human S-adenosylhomocysteine hydrolase (AHCY) "mRNA," complete cds	0	405	222	On	201	40.2	100.5
M93651_at	Human set "gene," complete cds	0	233	129	On	71	14.2	36.5
X12671_ma1_at	himp a1 protein gene extracted from Human gene for heterogeneous nuclear ribonucleoprotein (hnRNP) core protein A1	0	294	213	On	169	31.8	79.5
X16183_at	Human mRNA for 90-kDa heat-shock protein	0	716	384	On	594	118.8	297
Y08614_at	H.sapiens mRNA for CRM1 protein	588	1891	1780	Increased	919	662.8	762.5
Z49140_s_at	H.sapiens mRNA for ribosomal protein L29	0	171	135	On	72	14.4	36
Z48601_s_at	H.sapiens mRNA for polyadenylate binding protein II. lgb-Z48601 htype=RNA	616	2589	1801	Increased	2303	953.4	1459.5
H03076-HT3238_s_at	Heterogeneous Nuclear Ribonucleoprotein "K," ATL Splice 1	560	1988	2533	Increased	1263	700.6	911.5
M36430_s_at	Human transducin beta-1 subunit "mRNA," 3' end	0	433	247	On	239	47.8	119.5
H0417-HT417_s_at	Cathepsin B	0	508	265	On	118	23.8	69
J02683_s_at	Human ADP/ATP carrier protein "mRNA," complete cds	0	2797	1783	On	1172	234.4	586
		0	301	408	On	337	67.4	168.5

J04046_s_at	Human calmodulin "mRNA," complete cds	0	425	348	On	0	0	0
M28311_s_at	Human cystic fibrosis antigen mRNA, complete cds	0	2359	1413	On	15733	3146.6	7866.5
X13846_maf1_at	Human HMG-17 gene for non-histone chromosomal protein HMG-17.	208	740	1126	Increased	222	210.8	215
X64229_at	H.sapiens dek mRNA	0	198	269	On	60	10	26
X67326_at	H.sapiens p27 mRNA	0	358	883	On	0	0	0
L00205_at	Human K6b (epidermal keratin, type II) gene	80	0	0	Off	154	94.8	117
D10922_s_at	Human mRNA for FMLP-related receptor (HMR3)	495	0	0	Off	28	401.2	260.6
D66643_s_at	Human spleen PABL (pseudautosomal boundary-like sequence) "mRNA," clone 8p2. IgB-D66643 Intype-RNA	364	0	0	Off	0	291.2	182
L11672_at	Human Kruppel related zinc finger protein (HTF10) "mRNA," complete cds	3690	1770	1219	Decreased	376	3026	2030
M19878_at	Homo sapiens calbindin 27 gene, exons 1 and 2, and Alu repeat	365	0	0	Off	0	292	182.5
Z35402_maf1_s_at	H.sapiens gene encoding "E-cadherin," exon 3 and joined CDS	782	238	242	Decreased	169	841.4	460.5
M26665_at	Human histatin 2 (HIS2) mRNA, complete cds	210	0	0	Off	0	168	105
M96233_s_at	Human glutathione transferase class mu number 4 (GSTM4) "gene," complete cds	12618	0	0	Off	0	10014.4	6269
U31216_s_at	Human metabotropic glutamate receptor 1 alpha (mGluR1alpha) "mRNA," complete cds	317	0	0	Off	0	263.6	168.6
U33838_at	Human NF-kappa-B p85delta3 "mRNA," spliced transcript lacking exons 6 and 7, partial cds. IgB-U33838 Intype-RNA	478	0	0	Off	67	393.8	267.6
U79295_at	Human clone 23961 mRNA sequence	164	0	0	Off	0	131.2	82
U79304_at	Human clone 23908 "mRNA," partial cds	99	0	0	Off	0	76.2	49.5
X79200_at	H.sapiens mRNA for SYT-35X, synovial sarcoma translocation junction	844	0	0	Off	0	676.2	422
X80763_s_at	H.sapiens gene for 6-HT2c receptor	889	0	0	Off	124	676	406.6
X90846_at	H.sapiens mRNA for mixed lineage kinase 2	2099	801	604	Decreased	0	1679.2	1049.6
H08880-HT880_at	Human mucin 6, gastric (single repeat clone) -human (fragment), partial CDS	1793	0	493	Decreased	0	1434.4	896.6
L08787_s_at	Human (clone L6) orphan G protein-coupled receptor "mRNA," complete cds	599	0	160	Decreased	109	493	348
M27749_r_at	Human immunoglobulin-related 14.1 protein "mRNA," complete cds	1119	0	0	Off	0	896.2	659.6
M29335_at	Human MHC class II DO-alpha mRNA, partial cds	1043	0	217	Decreased	0	834.4	621.6
X66087_at	H.sapiens a-myb mRNA	293	0	0	Off	0	234.4	146.6
X95632_s_at	H.sapiens mRNA for Arg protein tyrosine kinase-binding protein	261	0	0	Off	0	208.8	130.5

Only genes scored as present are shown. Deviation describes aberration from pool ~ 20% and 50% describes expected units of expression if tumor pool was added 20% or 50% bladder wall components. Genes in bold do not need interrogation of bladder wall contribution. Off, genes that are turned off. On, genes that are turned on.

Table 5

Expression pattern				>=3 fold ch.	>=5 fold ch.	>=7 fold ch.	
N	↑	Ta	↑	T2-4	9	0	0
N	↑	Ta	→	T2-4	233	76	34
N	↑	Ta	↓	T2-4	164	51	23
N	→	Ta	↑	T2-4	612	262	141
N	→	Ta	→	T2-4	5407	6455	6768
N	→	Ta	↓	T2-4	264	92	41
N	↓	Ta	↑	T2-4	175	49	20
N	↓	Ta	→	T2-4	206	87	45
N	↓	Ta	↓	T2-4	2	0	0

Table 6

Gene Name	Positiv Negativ Pairs	Pairs UPairs I	Pos FractLog Avg	Connective tissue A			Avg Diff	Abs Call
				PM E	MM E	Pos/Neg		
hum_alu_at	68	0	69	67	0.99	6.27	4	0 Inf
L05499_at	19	0	20	18	0.95	7.03	3	0 Inf
AFHX-HUMGAPDH/M33197_3_at	18	0	20	18	0.90	5.85	1	0 Inf
L10343_at	19	0	20	18	0.95	6.38	2	0 Inf
D23660_at	19	0	20	18	0.95	7.89	3	0 Inf
AFHX-HSAC07/X00351_M_at	20	0	20	18	1.00	6.41	0	0 Inf
D88422_at	18	0	20	18	0.90	7.09	5	0 Inf
HG3214-HT3391_at	19	0	20	18	0.95	6.77	3	0 Inf
M21005_at	10	3	20	18	0.50	1.87	0	0.33
HG2873-HT3017_at	19	0	20	18	0.95	7.24	4	0 Inf
HG3364-HT3541_at	19	0	20	18	0.95	7.09	4	0 Inf
HG3549-HT3751_at	20	0	20	18	1.00	6.49	2	0 Inf
M17885_at	20	0	20	18	1.00	6.88	2	0 Inf
AFHX-HSAC07/X00351_5_at	17	0	20	18	0.85	5.46	0	0 Inf
HG1800-HT1823_at	18	0	20	18	0.90	4.94	1	0 Inf
M17886_at	17	1	20	18	0.85	4.70	0	0.17.0
AFHX-HUMGAPDH/M33197_M_at	18	0	20	18	0.90	5.29	0	0 Inf
M18000_at	20	0	20	18	1.00	7.06	4	0 Inf
M13934_cds2_at	17	0	20	18	0.85	5.00	1	0 Inf
AFHX-HSAC07/X00351_3_at	18	1	20	18	0.90	5.15	0	0.18.0
M11147_at	17	0	20	18	0.85	6.32	2	0 Inf
L06505_at	14	0	20	18	0.70	4.09	0	0 Inf
AFHX-CreX-3_at	20	0	20	17	1.00	6.01	1	0 Inf
M17733_at	18	1	20	18	0.90	6.09	1	0.18.0
D78361_at	17	1	20	18	0.85	4.91	0	0.17.0
L38941_at	20	0	20	18	1.00	6.50	1	0 Inf
D00017_at	18	0	20	18	0.90	4.24	0	0 Inf
AFHX-CreX-5_at	19	0	20	18	0.95	5.22	0	0 Inf
L14530_at	19	0	20	18	0.95	6.56	2	0 Inf
L11821-HT821_at	18	0	20	18	0.90	5.13	0	0 Inf
D38583_at	17	2	20	18	0.85	4.82	0	0.8.5
HG33-HT33_at	18	0	20	18	0.90	5.87	1	0 Inf
L19527_at	19	0	20	18	0.95	4.69	1	0 Inf
HG4319-HT4589_at	18	0	20	18	0.90	5.82	0	0 Inf
AFHX-HUMGAPDH/M33197_5_at	17	0	20	17	0.85	5.57	2	0 Inf
HG613-HT613_at	18	0	20	17	0.90	5.59	1	0 Inf
L20941_at	13	1	20	18	0.65	3.44	2	0.13.0
M11353_at	15	2	20	18	0.75	5.61	4	0.7.5
D79205_at	20	0	20	17	1.00	6.59	1	0 Inf
AFHX-BioDn-3_at	12	2	20	17	0.60	2.53	0	0.6.0
M21389_at	15	0	20	18	0.75	3.40	0	0 Inf
D87735_at	17	0	20	18	0.85	4.85	1	0 Inf
J03827_at	14	1	20	18	0.70	3.89	2	0.14.0
HG384-HT384_at	12	0	20	18	0.60	4.02	3	0 Inf
L11566_at	15	0	20	18	0.75	3.76	0	0 Inf
HG4542-HT4947_at	12	1	20	18	0.60	4.06	0	0.12.0
L26247_at	18	1	20	18	0.90	5.33	2	0.18.0
D00654_at	19	0	20	18	0.95	4.77	0	0 Inf

Side 1

Connective tissue A									
J00124_at	15	1	20	20	18.075	3.91	1	0.15.0	1210 P
D45370_at	14	1	20	20	17.070	2.56	0	0.14.0	1127 P
HG2279-HT2375_at	13	0	20	20	18.065	3.07	0	0 Inf	1112 P
M19283_at	17	2	20	20	18.085	3.74	2	1.8.5	1086 P
HG311-HT311_at	18	0	20	20	17.090	5.26	1	0 Inf	1067 P
M13903_at	13	0	20	20	18.065	2.57	0	0 Inf	1000 P
D14710_at	13	0	20	20	18.065	2.65	0	0 Inf	980 P
HG2780-HT2896_at	16	0	20	20	18.080	3.13	0	0 Inf	973 P
AC002115_cds1_at	11	0	20	20	18.055	2.71	0	0 Inf	941 P
D85429_at	12	0	20	20	18.060	3.21	0	0 Inf	917 P
J03592_at	16	0	20	20	18.080	3.50	0	0 Inf	905 P
D50840_at	19	0	20	20	18.095	5.59	4	0 Inf	851 P
D26068_at	16	1	20	20	18.080	3.30	0	1.16.0	821 P
J03191_at	18	1	20	20	18.090	4.33	0	0.18.0	799 P
HG1153-HT1153_at	9	0	20	20	18.045	2.17	0	0 Inf	772 P
L24203_at	13	2	20	20	18.055	3.15	1	0.6.5	762 P
D13748_at	11	0	20	20	17.055	2.04	0	0 Inf	744 P
M19483_at	13	0	20	20	18.065	3.28	0	0 Inf	683 P
D16217_at	12	0	20	20	18.060	2.35	0	0 Inf	681 P
M15661_at	14	0	20	20	18.070	3.49	0	0 Inf	653 P
HG987-HT987_at	13	2	20	20	18.065	3.18	1	0.6.5	640 P
D21261_at	7	0	20	20	18.035	1.71	0	0 Inf	623 P
AB001325_at	9	0	20	20	18.045	1.47	0	0 Inf	621 P
L19686_ma1_at	9	2	20	20	18.045	2.22	0	0.4.5	612 P
D13118_at	11	0	20	20	18.055	2.52	0	0 Inf	611 P
D29012_at	11	1	20	20	18.055	2.02	0	0.11.0	600 P
L09604_at	10	0	20	20	18.050	2.05	0	0 Inf	588 P
M14200_ma1_at	10	0	20	20	18.050	1.94	0	0 Inf	584 P
L08666_at	14	0	20	20	18.070	3.59	2	0 Inf	581 P
D31883_at	12	1	20	20	18.060	2.66	0	0.12.0	567 P
D16562_at	15	1	20	20	18.075	3.68	0	0.15.0	564 P
D89667_at	12	0	20	20	18.060	3.01	0	0 Inf	561 P
J04823_ma1_at	13	1	20	20	18.065	2.14	0	0.13.0	559 P
D85815_at	11	2	20	20	18.055	2.36	0	0.5.5	558 P
D11428_at	12	1	20	20	18.060	2.29	0	0.12.0	557 P
D26308_at	12	1	20	20	18.060	1.97	0	0.12.0	554 P
X26124_at	10	0	20	20	18.050	1.83	0	0 Inf	552 P
J01456_at	14	1	20	20	18.070	2.87	0	0.14.0	549 P
J04173_at	15	0	20	20	18.075	2.67	0	0 Inf	546 P
D87953_at	16	0	20	20	18.080	3.30	0	0 Inf	539 P
L19437_at	9	0	20	20	18.045	1.87	0	0 Inf	532 P
J04988_at	11	0	20	20	18.055	2.79	0	0 Inf	527 P
L38486_at	9	0	20	20	18.045	1.79	0	0 Inf	505 P
D87292_at	9	0	20	20	18.045	1.46	0	0 Inf	500 P
J02874_at	14	0	20	20	18.070	3.27	0	0 Inf	499 P
M19961_at	10	1	20	20	18.050	2.07	1	0.10.0	485 P
D00632_at	14	0	20	20	18.070	2.36	0	0 Inf	484 P
D38047_at	13	0	20	20	18.065	2.50	0	0 Inf	481 P
HG662-HT662_at	13	3	20	20	18.065	2.27	0	0.4.3	475 P
D14520_at	9	1	20	20	18.045	1.54	0	0.9.0	457 P

Side 2

Connective tissue A

K02765_at	13	1	20	20	18.065	1.66	0	0	13.0	455 P
AFFX-BioDn-5_at	11	1	20	20	18.055	1.60	0	0	11.0	450 P
HG174-HT174_at	11	0	20	20	18.055	2.00	0	0	Inf	433 P
M16279_at	10	0	20	20	17.050	1.73	0	0	Inf	418 P
D23662_at	9	0	20	20	18.045	1.53	0	0	Inf	417 P
J02854_at	10	1	20	20	17.050	2.07	0	0	10.0	412 P
M18728_at	13	3	20	20	18.065	2.45	1	0	4.3	412 P
HG3494-HT3688_at	8	1	20	20	17.040	1.35	0	0	8.0	410 P
J04080_at	13	1	20	20	18.065	3.09	0	0	13.0	407 P
D38548_at	7	0	20	20	18.035	1.52	0	0	Inf	404 P
D86479_at	8	0	20	20	18.040	1.57	0	0	Inf	404 P
D31846_at	8	1	20	20	18.040	1.35	0	0	8.0	402 P
D63874_at	9	0	20	20	18.045	2.26	0	0	Inf	398 P
D14812_at	9	0	20	20	18.045	1.51	0	0	Inf	396 P
J03040_at	8	0	20	20	18.040	2.06	0	0	Inf	393 P
AFFX-HSAC07X00351_3_st	12	0	20	20	17.060	2.80	0	0	Inf	392 P
L27943_at	8	0	20	20	17.040	1.47	0	0	Inf	392 P
D30655_at	13	3	20	20	18.065	3.06	0	0	4.3	391 P
J02902_at	7	1	20	20	18.035	1.95	0	0	7.0	391 P
L12168_at	10	0	20	20	18.050	2.54	0	0	Inf	390 P
L10284_at	14	0	20	20	18.070	3.39	0	0	Inf	388 P
D26599_at	10	1	20	20	18.050	1.87	0	0	10.0	387 P
L76200_at	11	1	20	20	18.055	1.89	0	0	11.0	384 P
J03459_at	9	3	20	20	18.045	1.61	1	0	3.0	381 P
D90209_at	14	0	20	20	17.070	3.34	0	0	Inf	380 P
D25274_at	14	2	20	20	17.070	2.26	0	0	7.0	378 P
D26598_at	10	0	20	20	18.050	1.86	0	0	Inf	359 P
L19605_at	10	0	20	20	17.050	1.66	0	0	Inf	336 P
AFFX-BioC-5_at	10	1	20	20	18.050	1.64	0	0	10.0	333 P
D78151_at	10	0	20	20	18.050	1.81	0	0	Inf	319 P
AJ000480_at	8	1	20	20	18.040	1.70	0	0	8.0	314 P
D23673_at	11	2	20	20	17.055	1.79	0	0	5.5	312 P
L11370_at	10	0	20	20	18.050	1.98	0	0	Inf	311 P
D00761_at	10	0	20	20	18.050	1.77	0	0	Inf	310 P
L49169_at	10	0	20	20	18.050	1.99	1	0	Inf	306 P
D83778_at	9	1	20	20	17.045	1.49	1	0	9.0	304 P
D28416_at	7	1	20	20	18.035	2.07	1	0	7.0	301 P
D25218_at	13	2	20	20	18.065	2.88	2	0	6.5	300 P
D45248_at	8	0	20	20	18.040	1.62	0	0	Inf	300 P
J04611_at	7	1	20	20	18.035	1.48	0	0	7.0	295 P
D63475_at	12	1	20	20	18.060	1.95	0	0	12.0	290 P
L13391_at	12	0	20	20	18.060	3.00	0	0	Inf	288 P
L25080_at	11	0	20	20	18.055	1.47	0	0	Inf	284 P
HG1862-HT1897_at	10	2	20	20	18.050	1.72	0	0	5.0	281 P
AJ001421_at	7	0	20	20	18.035	1.05	0	0	Inf	276 P
K03195_at	14	1	20	20	18.070	3.33	3	0	14.0	274 P
L07633_at	12	1	20	20	17.060	2.38	0	0	12.0	270 P
D38048_at	10	0	20	20	18.050	2.40	0	0	Inf	264 P
L08246_at	10	2	20	20	18.050	1.76	1	0	5.0	260 P
AF005775_at	9	0	20	20	18.045	1.64	0	0	Inf	253 P

Side 3

Connective tissue A

D50310_at	9	1	20	20	18.045	1.79	0	0.90	247 P
HG1112-HT1112_at	11	1	20	20	18.055	1.83	0	0.11.0	244 P
L11285_at	9	2	20	20	18.045	1.67	0	0.4.5	244 P
D14689_at	8	2	20	20	18.040	1.35	0	0.4.0	242 P
D55654_at	10	1	20	20	18.050	2.28	0	0.10.0	242 P
D28423_at	9	1	20	20	17.045	2.26	0	0.9.0	241 P
D31765_at	8	1	20	20	18.040	2.07	1	0.8.0	240 P
HG2855-HT2995_at	8	2	20	20	18.040	1.95	0	0.4.0	240 P
M14058_at	10	1	20	20	18.050	2.37	0	0.10.0	240 P
D49400_at	9	2	20	20	17.045	1.66	1	1.4.5	239 P
D87258_at	8	1	20	20	18.040	1.46	0	0.8.0	238 P
D26129_at	7	0	20	20	17.035	1.17	0	0.1nf	237 P
L32977_at	13	1	20	20	18.065	2.73	0	0.13.0	237 P
D31767_at	8	2	20	20	17.040	1.33	0	0.4.0	236 P
D61380_at	10	2	20	20	18.050	1.67	0	0.5.0	231 P
D13988_at	10	0	20	20	18.050	1.33	0	0.1nf	228 P
AFFX-Bioc-3_at	7	0	20	20	18.035	1.42	0	0.1nf	226 P
L76191_at	8	1	20	20	18.040	2.28	1	0.8.0	225 P
D42123_at	9	1	20	20	18.045	1.20	0	0.9.0	223 P
D11094_at	8	2	20	20	18.040	1.19	0	0.4.0	222 P
L25085_at	7	0	20	20	18.035	1.77	0	0.1nf	222 P
D29643_at	12	2	20	20	18.060	1.88	0	0.6.0	221 P
L11373_at	8	2	20	20	18.040	1.34	0	0.4.0	214 P
D17525_at	7	1	20	20	18.035	1.43	0	0.7.0	211 P
D21260_at	7	0	20	20	18.035	1.14	0	0.1nf	211 P
D28364_at	13	0	20	20	18.065	2.59	1	0.1nf	209 P
D63878_at	9	2	20	20	18.045	1.28	0	1.4.5	206 P
D78134_at	7	1	20	20	18.035	1.18	0	0.7.0	203 P
D38549_at	7	1	20	20	18.035	1.69	2	1.7.0	201 P
M14016_at	9	1	20	20	18.045	1.96	0	0.9.0	201 P
D21853_at	9	1	20	20	18.045	1.84	0	0.9.0	199 P
L40401_at	8	0	20	20	18.040	1.82	0	0.1nf	197 P
D63476_at	9	2	20	20	18.045	1.42	0	0.4.5	195 P
L40027_at	8	0	20	20	18.040	1.93	1	0.1nf	193 P
D00762_at	10	0	20	20	18.050	2.12	0	0.1nf	188 P
D17400_at	9	2	20	20	18.045	1.50	0	0.4.5	187 P
L03532_at	11	3	20	20	18.055	1.71	0	0.3.7	187 P
L08488_at	12	1	20	20	17.060	3.01	1	0.12.0	187 P
HG3895-HT4265_at	8	1	20	20	18.040	1.14	0	0.8.0	186 P
M11717_ma1_at	13	2	20	20	18.065	3.65	2	0.6.5	186 P
D13370_at	9	1	20	20	17.045	1.75	0	0.9.0	185 P
HG1116-HT1116_at	8	0	20	20	18.040	1.46	0	0.1nf	184 P
K03515_at	8	2	20	20	18.040	1.32	0	0.4.0	183 P
D17516_at	7	0	20	20	17.035	1.45	0	0.1nf	177 P
HG4272-HT4542_at	7	1	20	20	18.035	1.97	1	0.7.0	177 P
D28137_at	9	3	20	20	18.045	1.55	0	0.3.0	176 P
L22009_at	8	2	20	20	18.040	1.35	0	0.4.0	175 P
D44466_at	12	1	20	20	18.060	2.09	1	0.12.0	173 P
L29277_at	8	0	20	20	17.040	1.41	0	0.1nf	173 P
L00352_at	7	1	20	20	18.035	1.98	1	0.7.0	169 P

Side 4

Connective tissue A

L34587_at	7	1	20	20	18.035	1.46	0	0.7.0	169 P
L37042_at	9	0	20	20	18.045	1.42	0	0 Inf	169 P
D86966_at	8	2	20	20	18.040	1.35	0	0.4.0	168 P
D15050_at	11	0	20	20	17.055	1.77	0	0 Inf	166 P
L10838_at	8	0	20	20	18.040	1.16	0	0 Inf	166 P
D14043_at	10	1	20	20	18.050	1.73	0	0 10.0	159 P
D87071_at	8	2	20	20	17.040	1.12	0	0.4.0	157 P
D42043_at	11	2	20	20	18.055	2.07	0	0 5.5	155 P
L38932_at	9	0	20	20	18.045	1.29	0	0 Inf	152 P
D90276_at	9	1	20	20	18.045	1.85	1	0 9.0	148 P
M13450_at	13	3	20	20	18.065	2.36	0	0 4.3	148 P
M11726_at	9	2	20	20	18.045	1.35	0	0 4.5	147 P
L41690_at	9	2	20	20	18.045	1.90	0	0 4.5	146 P
D43950_at	7	0	20	20	18.035	1.52	0	0 Inf	145 P
D63851_at	8	2	20	20	18.040	1.12	0	0.4.0	143 P
L19314_at	7	0	20	20	17.035	1.64	0	0 Inf	143 P
L41668_ma1_at	8	0	20	20	17.040	1.39	0	0 Inf	142 P
D83004_at	9	1	20	20	17.045	1.87	0	1 9.0	141 P
K02574_at	9	1	20	20	18.045	1.80	1	0 9.0	138 P
M13792_at	10	2	20	20	18.050	2.18	0	0 5.0	138 P
HG2415-HT2511_at	10	2	20	20	18.050	1.29	0	0 5.0	135 P
L20773_at	8	2	20	20	18.040	1.39	0	1 4.0	134 P
D10923_at	8	1	20	20	18.040	1.66	0	0 8.0	132 P
M12759_at	10	2	20	20	18.050	1.70	1	0 5.0	131 P
M16038_at	7	0	20	20	18.035	1.77	0	0 Inf	131 P
D86963_at	8	1	20	20	18.040	1.52	0	0 8.0	128 P
J05249_at	10	0	20	20	17.050	2.26	0	0 Inf	128 P
D90084_at	7	1	20	20	18.035	1.11	0	0 7.0	124 P
AF007875_at	8	1	20	20	18.040	1.33	0	0 8.0	123 P
D00726_at	7	0	20	20	18.035	1.62	0	0 Inf	123 P
J05243_at	9	0	20	20	18.045	1.62	0	0 Inf	122 P
L13761_ma1_at	7	0	20	20	18.035	1.52	0	0 Inf	119 P
L38951_at	10	0	20	20	18.050	1.86	0	0 Inf	119 P
M18533_at	12	2	20	20	18.060	3.76	4	0 6.0	119 P
J04605_at	7	1	20	20	18.035	1.22	0	0 7.0	117 P
D38553_at	7	0	20	20	18.035	1.48	0	0 Inf	116 P
L36531_at	7	2	20	20	18.035	1.46	1	0 3.5	116 P
L14837_at	9	2	20	20	18.045	2.20	2	0 4.5	113 P
HG4102-HT4372_at	7	1	20	20	18.035	1.12	0	0 7.0	109 P
L40395_at	8	2	20	20	18.040	1.38	0	0 4.0	107 P
D30756_at	8	1	20	20	18.040	2.06	2	0 8.0	106 P
L47738_at	8	0	20	20	17.040	0.90	0	0 Inf	105 P
D13841_at	9	1	20	20	18.045	1.05	0	0 9.0	104 P
D45399_at	9	3	20	20	18.045	1.65	0	0 3.0	104 P
L27706_at	12	2	20	20	18.060	1.93	0	0 6.0	104 P
D50683_at	9	3	20	20	18.045	1.47	0	0 3.0	100 P
HG2167-HT2237_at	9	1	20	20	18.045	1.19	0	0 9.0	99 P
D29641_at	7	1	20	20	18.035	1.43	0	0 7.0	98 P
L13977_at	7	1	20	20	18.035	1.58	1	0 7.0	97 P
L34600_at	7	0	20	20	18.035	1.05	0	0 Inf	95 P

Side 5

Connective tissue A									
D42053_at	8	1	20	20	18 0.40	1.47	0	0.80	94 P
M14123_xp12_at	9	3	20	20	18 0.45	1.36	1	0.30	93 P
D14658_at	7	1	20	20	18 0.35	0.92	0	0.70	92 P
L27841_at	8	2	20	20	18 0.40	1.00	0	0.40	92 P
AF010193_at	7	1	20	20	18 0.35	1.07	0	0.70	91 P
D50926_at	11	2	20	20	18 0.55	1.24	0	0.55	90 P
M11321_at	10	1	20	20	18 0.50	1.35	0	0.100	90 P
HG1102-HT1102_at	7	1	20	20	18 0.35	1.68	1	0.70	89 P
L40393_at	12	2	20	20	17 0.60	2.43	0	0.60	89 P
D80003_at	9	1	20	20	18 0.45	1.59	1	0.90	86 P
M14219_at	10	1	20	20	18 0.50	1.99	1	0.100	86 P
M14539_at	7	0	20	20	18 0.35	0.98	0	0.100	86 P
M13699_at	9	3	20	20	18 0.45	2.24	1	0.30	85 P
L19711_at	8	0	20	20	18 0.40	1.67	0	0.100	84 P
L76703_at	9	2	20	20	18 0.45	2.08	1	0.45	84 P
D63390_at	10	1	20	20	18 0.50	2.52	2	0.100	82 P
HG831-HT831_at	9	2	20	20	18 0.45	1.31	1	0.45	78 P
D21255_at	9	1	20	20	18 0.45	1.83	1	0.90	77 P
D78129_at	9	3	20	20	18 0.45	1.60	1	0.30	77 P
L48513_at	13	3	20	20	18 0.65	1.87	1	1.43	77 P
M14636_at	9	3	20	20	18 0.45	1.62	1	2.30	73 P
M15796_at	7	2	20	20	18 0.35	1.66	0	0.35	73 P
HG1103-HT1103_at	9	2	20	20	18 0.45	1.51	1	0.45	71 P
L35240_at	7	1	20	20	18 0.35	1.02	0	0.70	67 P
L77886_at	9	3	20	20	17 0.45	2.27	2	0.30	59 P
D14659_at	9	3	20	20	18 0.45	1.61	1	0.30	54 P
J04156_at	8	2	20	20	18 0.40	1.23	1	0.40	54 P
D87457_at	8	2	20	20	18 0.40	2.72	4	0.40	48 P
L20321_at	7	1	20	20	18 0.35	0.92	1	0.70	32 P
L20814_at	9	3	20	20	18 0.45	1.61	1	1.30	28 P

Side 6

Connective tissue B															
Gene Nam	Positive	Negative	Pairs	Pairs	User	InAv	Pos	Fractl	Log Avg	PM Exces	MM Exces	Pos/Neg	Avg Diff	Abs Call	
hum_alu_a	69	0	69	69	69	67	1.00	7.19	7.19	12	0	Inf	12502 P		
U46692_in	19	0	20	20	20	18	0.95	7.15	7.15	3	0	Inf	10030 P		
AFHX-HUN	18	0	20	20	20	18	0.90	6.05	6.05	0	0	Inf	5799 P		
AFHX-HSA	20	0	20	20	20	18	1.00	6.50	6.50	0	0	Inf	5422 P		
U14969_at	20	0	20	20	20	18	1.00	6.79	6.79	0	0	Inf	4539 P		
M60854_at	19	1	20	20	20	18	0.95	6.50	6.50	2	0	19.0	4473 P		
AFHX-Cre	19	0	20	20	20	18	0.95	7.67	7.67	3	0	Inf	4430 P		
M81757_at	18	0	20	20	20	18	0.90	6.62	6.62	2	0	Inf	4369 P		
U14973_at	19	0	20	20	20	18	0.95	6.06	6.06	1	0	Inf	4281 P		
AFHX-HSA	19	0	20	20	20	18	0.95	6.11	6.11	1	0	Inf	4114 P		
U14970_at	19	0	20	20	20	18	0.95	6.15	6.15	2	0	Inf	3928 P		
U14968_at	18	0	20	20	20	18	0.90	7.18	7.18	3	0	Inf	3885 P		
U14972_at	17	0	20	20	20	18	0.85	5.60	5.60	2	0	Inf	3695 P		
M84711_at	17	1	20	20	20	18	0.85	7.59	7.59	5	1	17.0	3651 P		
AFHX-HUN	17	0	20	20	20	18	0.85	5.08	5.08	0	0	Inf	3483 P		
M24194_at	19	0	20	20	20	18	0.95	5.69	5.69	0	0	Inf	3378 P		
U12465_at	19	0	20	20	20	18	0.95	6.01	6.01	0	0	Inf	3327 P		
M64716_at	17	2	20	20	20	18	0.85	5.15	5.15	3	0	8.5	3228 P		
S79522_at	19	0	20	20	20	18	0.95	6.42	6.42	4	0	Inf	3161 P		
AFHX-Cre	19	0	20	20	20	18	0.95	6.86	6.86	1	0	Inf	2966 P		
AFHX-HSA	18	0	20	20	20	17	0.90	5.87	5.87	0	0	Inf	2793 P		
AFHX-HUN	17	0	20	20	20	18	0.85	5.95	5.95	4	0	Inf	2690 P		
U14971_at	18	0	20	20	20	18	0.90	5.27	5.27	1	0	Inf	2645 P		
M77232_in	20	0	20	20	20	18	1.00	7.99	7.99	6	0	Inf	2616 P		
M94856_at	18	0	20	20	20	18	0.80	8.28	8.28	10	0	Inf	2525 P		
U12404_at	20	0	20	20	20	18	1.00	6.67	6.67	2	0	Inf	2522 P		
U09953_at	18	1	20	20	20	18	0.90	6.77	6.77	3	0	18.0	2506 P		
M32053_at	20	0	20	20	20	18	1.00	6.29	6.29	0	0	Inf	2486 P		
U58682_at	15	1	20	20	20	18	0.75	4.14	4.14	1	0	15.0	2129 P		
U49869_in	18	0	20	20	20	17	0.90	5.83	5.83	2	0	Inf	2053 P		
M32405_at	13	2	20	20	20	17	0.65	3.40	3.40	1	0	6.5	2005 P		
M31520_at	20	0	20	20	20	18	1.00	6.23	6.23	4	0	Inf	1876 P		
M84526_at	14	1	20	20	20	18	0.70	3.38	3.38	0	0	14.0	1875 P		
M38591_at	19	0	20	20	20	18	0.95	6.10	6.10	3	0	Inf	1819 P		
M95787_at	17	0	20	20	20	18	0.85	4.53	4.53	1	0	Inf	1735 P		
M97815_at	17	0	20	20	20	18	0.85	4.05	4.05	0	0	Inf	1655 P		
M86400_at	18	0	20	20	20	18	0.90	5.75	5.75	3	0	Inf	1653 P		
AFHX-BioC	16	2	20	20	20	17	0.80	3.26	3.26	0	0	8.0	1555 P		
M26880_at	16	0	20	20	20	18	0.80	7.17	7.17	9	0	Inf	1506 P		
M63138_at	12	1	20	20	20	18	0.60	2.92	2.92	0	0	12.0	1489 P		
M57710_at	18	1	20	20	20	18	0.90	6.45	6.45	2	1	18.0	1449 P		
M23613_at	17	1	20	20	20	18	0.85	5.57	5.57	4	0	17.0	1448 P		
M33680_at	15	0	20	20	20	18	0.75	3.69	3.69	1	0	Inf	1423 P		
M27891_at	14	0	20	20	20	18	0.70	3.55	3.55	0	0	Inf	1363 P		
S81914_at	18	0	20	20	20	18	0.90	5.75	5.75	1	0	Inf	1310 P		
U25789_at	16	0	20	20	20	18	0.80	5.97	5.97	2	0	Inf	1265 P		
M74542_at	14	1	20	20	20	18	0.70	3.88	3.88	0	0	14.0	1233 P		
M38690_at	15	1	20	20	20	18	0.75	3.97	3.97	0	0	15.0	1172 P		
S65738_at	16	1	20	20	20	18	0.80	5.75	5.75	0	0	16.0	1151 P		
M34182_at	7	2	20	20	20	18	0.35	1.43	1.43	0	0	3.5	924 P		

Side 1

Connective tissue B										
92934_al	16	1	20	20	20	18.080	4.82	0	0.16.0	898 P
33379_al	16	0	20	20	20	18.080	3.59	0	0 Inf	891 P
M50047_al	17	0	20	20	20	18.085	4.42	1	0 Inf	847 P
U17077_al	15	0	20	20	20	18.075	3.94	1	0 Inf	841 P
M76378_al	13	0	20	20	20	18.065	4.01	0	0 Inf	839 P
M93056_al	14	0	20	20	20	18.070	4.58	1	0 Inf	834 P
U15008_al	15	0	20	20	20	17.075	3.48	1	0 Inf	816 P
M84332_al	12	1	20	20	20	18.060	2.32	0	0.12.0	767 P
M69043_al	14	1	20	20	20	18.070	4.12	1	0.14.0	748 P
U32944_al	15	1	20	20	20	17.075	4.21	2	0.15.0	743 P
M55593_al	12	1	20	20	20	18.060	2.46	0	0.12.0	739 P
U09813_al	15	0	20	20	20	18.075	4.39	0	0 Inf	715 P
M98447_rr	10	0	20	20	20	18.050	2.31	0	0 Inf	705 P
U41635_al	13	0	20	20	20	18.065	1.97	0	0 Inf	702 P
U51478_al	15	1	20	20	20	18.075	4.39	0	0.15.0	691 P
M86849_al	13	1	20	20	20	18.065	4.24	1	0.13.0	675 P
U04313_al	14	0	20	20	20	18.070	3.59	0	0 Inf	667 P
U48959_al	14	1	20	20	20	18.070	3.07	1	0.14.0	621 P
U46751_al	13	1	20	20	20	18.065	3.61	0	0.13.0	619 P
S77356_al	12	2	20	20	20	18.060	3.32	1	0.6.0	579 P
M23254_al	15	1	20	20	20	18.075	3.68	0	0.15.0	574 P
U44839_al	9	2	20	20	20	18.045	1.35	0	0.4.5	566 P
M62982_al	13	2	20	20	20	18.065	3.06	0	0.6.5	561 P
M88468_al	8	2	20	20	20	18.040	0.98	0	0.4.0	538 P
U21128_al	11	3	20	20	20	18.055	3.45	2	0.3.7	510 P
U50523_al	12	2	20	20	20	18.060	2.95	0	0.6.0	510 P
U30255_al	11	0	20	20	20	17.055	2.64	0	0 Inf	503 P
M60858_rr	16	0	20	20	20	18.080	3.50	1	0 Inf	501 P
U37690_al	10	0	20	20	20	18.050	2.08	0	0 Inf	499 P
S45630_al	11	0	20	20	20	18.055	1.86	0	0 Inf	495 P
M98539_al	13	2	20	20	20	18.065	2.84	0	0.6.5	489 P
S75463_al	10	1	20	20	20	18.050	1.71	0	0.10.0	484 P
M29540_al	15	2	20	20	20	18.075	3.86	0	0.7.5	483 P
M80563_al	13	0	20	20	20	18.065	2.43	0	0 Inf	482 P
M22538_al	13	0	20	20	20	18.065	2.32	0	0 Inf	468 P
M75126_al	11	0	20	20	20	18.055	2.14	0	0 Inf	444 P
U56637_al	12	0	20	20	20	18.060	2.95	0	0 Inf	442 P
U46499_al	14	1	20	20	20	17.070	3.14	0	0.14.0	437 P
U12779_al	7	0	20	20	20	18.035	1.00	0	0 Inf	434 P
U51004_al	13	1	20	20	20	18.065	2.57	0	0.13.0	433 P
U11861_al	8	1	20	20	20	18.040	1.49	0	0.8.0	432 P
U03057_al	12	0	20	20	20	17.060	2.03	0	0 Inf	430 P
M96739_al	7	1	20	20	20	18.035	1.37	0	0.7.0	429 P
M22760_al	13	0	20	20	20	18.065	3.54	0	0 Inf	426 P
U62962_al	8	0	20	20	20	18.040	1.65	0	0 Inf	410 P
AFFX-BioC	12	2	20	20	20	18.060	1.72	0	0.6.0	400 P
S73591_al	13	2	20	20	20	18.065	2.35	0	0.6.5	392 P
M63391_rr	8	1	20	20	20	18.040	1.61	0	0.8.0	391 P
M88338_al	11	2	20	20	20	18.055	1.48	0	0.5.5	389 P
M76482_al	14	3	20	20	20	18.070	2.79	0	0.4.7	382 P
M22382_al	13	0	20	20	20	18.065	2.59	0	0 Inf	377 P
M22490_al	8	1	20	20	20	18.040	1.47	0	0.8.0	

Side 2

Connective tissue B									
M57567_al	9	1	20	20	18 0.45	1.77	0	0.9.0	377 P
U15932_al	14	1	20	20	18 0.70	3.10	0	1 14.0	375 P
AFFX-HSA	12	0	20	20	17 0.60	2.29	0	0 Inf	374 P
S74017_al	15	2	20	20	18 0.75	2.72	0	0 7.5	372 P
M74491_al	12	0	20	20	18 0.60	2.09	0	0 Inf	363 P
U37519_al	11	1	20	20	18 0.55	2.22	0	0 11.0	358 P
U29064_al	15	1	20	20	18 0.75	3.51	1	1 15.0	353 P
U62402_al	9	0	20	20	18 0.45	1.99	0	0 Inf	350 P
U29953_m	12	0	20	20	18 0.60	2.67	0	0 Inf	349 P
U46025_al	11	0	20	20	18 0.55	1.97	0	0 Inf	349 P
U46570_al	9	1	20	20	18 0.45	1.53	0	0 9.0	347 P
S73149_al	8	0	20	20	18 0.40	1.20	0	0 Inf	346 P
U33821_al	10	1	20	20	18 0.50	1.94	0	0 10.0	346 P
U09117_al	8	2	20	20	18 0.40	1.33	0	0 4.0	344 P
AFFX-BtoC	15	2	20	20	18 0.75	2.38	0	0 7.5	340 P
M37104_al	17	0	20	20	18 0.85	3.43	2	0 Inf	338 P
M59815_al	10	2	20	20	17 0.50	2.14	0	0 5.0	337 P
M75099_al	9	1	20	20	18 0.45	1.69	0	0 9.0	331 P
U07857_al	17	1	20	20	17 0.85	3.44	0	0 17.0	330 P
M28209_al	13	0	20	20	18 0.65	2.74	0	0 Inf	321 P
U02020_al	15	2	20	20	18 0.75	3.40	0	0 7.5	315 P
M31525_al	10	3	20	20	18 0.50	1.92	0	0 3.3	314 P
M60278_al	9	2	20	20	18 0.45	2.06	0	0 4.5	308 P
M83751_al	13	0	20	20	18 0.65	2.21	0	0 Inf	307 P
M63167_al	10	1	20	20	17 0.50	1.51	0	0 10.0	306 P
U15085_al	13	0	20	20	18 0.65	2.34	0	0 Inf	306 P
M55621_al	12	0	20	20	17 0.60	2.65	0	0 Inf	304 P
S72487_al	8	0	20	20	18 0.40	1.71	0	0 Inf	301 P
U00968_al	10	0	20	20	18 0.50	1.12	0	0 Inf	301 P
M94630_al	9	2	20	20	18 0.45	1.31	1	0 4.5	290 P
M59465_al	11	2	20	20	18 0.55	2.68	2	0 5.5	289 P
M37583_al	13	1	20	20	18 0.65	3.67	1	0 13.0	288 P
M84349_al	11	1	20	20	17 0.55	2.58	0	0 11.0	286 P
M99701_al	13	1	20	20	18 0.65	2.72	1	0 13.0	282 P
U37122_al	10	1	20	20	17 0.50	1.95	1	0 10.0	282 P
U57342_al	7	0	20	20	18 0.35	1.06	0	0 Inf	281 P
M34079_al	9	3	20	20	17 0.45	1.53	0	0 3.0	280 P
S68616_al	8	2	20	20	18 0.40	1.35	0	0 4.0	279 P
M69066_al	14	2	20	20	17 0.70	3.20	0	0 7.0	276 P
M88279_al	11	0	20	20	18 0.55	2.06	0	0 Inf	276 P
M31013_al	12	2	20	20	18 0.60	2.13	0	0 6.0	274 P
M94345_al	11	1	20	20	18 0.55	1.77	0	0 11.0	274 P
U37689_al	8	0	20	20	18 0.40	1.35	0	0 Inf	269 P
U41515_al	11	1	20	20	18 0.55	2.31	0	0 11.0	269 P
M37984_r	8	2	20	20	18 0.40	1.43	0	0 4.0	267 P
M88458_al	12	0	20	20	18 0.60	1.93	0	0 Inf	265 P
U02570_al	11	1	20	20	18 0.55	2.26	1	0 11.0	263 P
M68864_al	9	1	20	20	18 0.45	2.10	0	0 9.0	260 P
M31894_al	11	1	20	20	18 0.55	2.60	0	0 11.0	257 P
M35878_al	10	2	20	20	18 0.50	1.55	0	1 5.0	255 P
U62015_al	8	0	20	20	18 0.40	1.58	0	0 Inf	253 P
U44755_al	7	1	20	20	18 0.35	1.45	0	0 7.0	250 P

Side 3

Connective tissue B									
M80244_al	9	1	20	20	17.045	1.50	0	0.90	249 P
U02493_al	9	1	20	20	18.045	2.04	0	0.90	247 P
M29696_al	8	1	20	20	18.040	1.21	0	0.80	246 P
M73720_al	12	0	20	20	17.060	2.59	0	0.1nf	246 P
U09579_al	9	2	20	20	18.045	2.07	1	0.45	242 P
M92303_al	7	2	20	20	18.035	1.41	0	0.35	240 P
U20285_al	7	1	20	20	18.035	1.80	0	0.70	240 P
U50733_al	9	1	20	20	18.045	1.93	0	0.90	239 P
M29536_al	13	2	20	20	18.065	2.11	0	0.65	238 P
M63483_al	11	3	20	20	18.055	1.75	0	0.37	238 P
M83186_al	10	3	20	20	18.050	1.97	0	0.33	238 P
U40391_fm	9	1	20	20	18.045	1.50	0	0.90	237 P
M86667_al	13	0	20	20	18.065	3.08	1	0.1nf	233 P
S53911_al	11	2	20	20	17.055	1.84	0	0.55	233 P
AFFX-B10C	10	1	20	20	18.050	1.81	0	0.100	232 P
M33308_al	13	0	20	20	18.065	3.20	1	0.1nf	231 P
S83364_al	9	1	20	20	18.045	2.20	0	0.90	231 P
U06863_al	7	0	20	20	18.035	1.14	0	0.1nf	230 P
M37033_al	11	3	20	20	18.055	1.97	1	0.37	229 P
U21931_al	9	2	20	20	18.045	1.55	0	0.45	229 P
M36341_al	13	1	20	20	17.065	2.63	0	0.130	225 P
M55040_al	8	2	20	20	18.040	1.18	0	0.40	225 P
M80254_al	8	1	20	20	18.040	1.69	0	0.80	223 P
M5763_al	7	2	20	20	18.035	1.35	0	0.35	222 P
M83088_al	8	2	20	20	18.040	1.71	0	0.40	221 P
M33336_al	16	1	20	20	18.080	2.70	0	0.160	217 P
M58028_al	9	1	20	20	18.045	1.46	0	0.90	213 P
M63573_al	11	2	20	20	18.055	2.70	0	0.55	213 P
U63541_al	11	2	20	20	18.055	1.87	0	0.55	213 P
U24105_al	9	0	20	20	18.045	1.86	0	0.1nf	212 P
M64992_al	10	1	20	20	17.050	2.15	1	0.100	210 P
U38846_al	12	1	20	20	18.060	1.89	0	0.120	209 P
U40282_al	11	3	20	20	18.055	1.59	0	0.37	208 P
M26576_al	7	2	20	20	18.035	1.40	0	0.35	207 P
S77812_al	9	2	20	20	18.045	1.80	0	0.45	206 P
U30825_al	10	2	20	20	17.050	2.18	0	0.50	206 P
M33552_al	9	1	20	20	18.045	1.19	0	0.90	205 P
U52112_fm	9	1	20	20	18.045	1.97	1	0.90	205 P
M58603_al	12	2	20	20	17.060	2.77	2	0.60	202 P
S82240_al	12	1	20	20	18.060	3.55	2	0.120	201 P
M86528_al	7	1	20	20	18.035	1.20	0	0.70	200 P
M22632_al	9	1	20	20	18.045	1.38	0	0.90	199 P
M81601_al	11	2	20	20	18.055	1.77	0	0.55	199 P
M94556_al	12	1	20	20	18.060	2.15	0	0.120	199 P
M37435_al	7	1	20	20	18.035	1.74	0	0.70	197 P
M64098_al	11	2	20	20	18.055	2.31	0	0.55	197 P
U20998_al	8	2	20	20	18.040	2.68	1	0.40	196 P
U36764_al	14	1	20	20	17.070	3.29	0	0.140	196 P
U12255_al	8	1	20	20	18.040	1.73	0	0.80	195 P
U54778_al	8	1	20	20	18.040	1.23	0	0.80	195 P
M69039_al	14	2	20	20	17.070	2.86	0	0.70	184 P
M24902_al	11	0	20	20	18.055	2.34	0	0.1nf	193 P

Side 4

Connective tissue B									
U52100_al	12	0	20	20	18.060	2.09	0	0 Inf	192 P
U03100_al	12	3	20	20	18.060	2.40	0	0.40	189 P
M64347_al	10	2	20	20	18.050	1.08	0	0.50	186 P
M81780_c	7	0	20	20	18.035	1.01	0	0 Inf	186 P
M29877_al	10	1	20	20	18.050	1.51	0	1.10.0	181 P
M62831_al	9	0	20	20	18.045	1.63	0	0 Inf	180 P
U49785_al	12	0	20	20	18.060	1.76	1	0 Inf	178 P
M31627_al	12	2	20	20	18.060	1.96	0	0.60	177 P
U07424_al	10	3	20	20	18.050	1.50	0	0.33	177 P
M89473_al	8	2	20	20	18.040	1.03	0	0.40	174 P
U52101_al	7	1	20	20	18.035	1.22	0	0.70	174 P
U16127_al	8	2	20	20	18.040	1.73	0	0.40	173 P
U03688_al	10	2	20	20	18.050	2.96	0	0.50	172 P
U57877_al	8	2	20	20	18.040	1.10	0	0.40	169 P
M23114_al	14	1	20	20	17.070	2.87	1	0.14.0	167 P
M73547_al	10	3	20	20	18.050	1.38	0	0.33	165 P
U21049_al	7	0	20	20	18.035	0.95	0	0 Inf	165 P
S67325_al	8	1	20	20	18.040	1.24	0	0.80	163 P
U18009_al	10	2	20	20	18.050	1.86	0	0.50	163 P
U50330_al	8	1	20	20	18.040	1.22	0	0.80	163 P
U51678_al	12	2	20	20	18.060	1.84	0	0.60	160 P
U24166_al	12	1	20	20	18.060	2.02	0	0.12.0	158 P
U34962_al	10	2	20	20	18.050	1.26	0	0.50	152 P
M57399_al	9	3	20	20	18.045	1.33	0	0.30	150 P
U53476_al	7	1	20	20	18.035	1.13	0	0.70	150 P
M24470_al	8	1	20	20	17.040	1.20	0	0.80	148 P
M29927_al	8	0	20	20	17.040	1.33	0	0 Inf	147 P
U51711_al	9	1	20	20	17.045	1.67	0	0.90	146 P
M34057_al	10	3	20	20	18.050	2.37	1	0.33	145 P
U43286_al	10	3	20	20	18.050	1.61	0	1.33	143 P
U53445_al	14	1	20	20	17.070	3.30	1	0.14.0	143 P
S65583_rn	9	3	20	20	18.045	1.46	1	0.30	141 P
M86546_al	10	1	20	20	17.050	1.83	1	0.10.0	140 P
U31384_al	9	1	20	20	18.045	1.49	0	0.90	139 P
M63175_al	8	2	20	20	18.040	1.46	0	0.40	138 P
M93283_al	10	2	20	20	17.050	1.39	0	0.50	138 P
U30888_al	8	2	20	20	18.040	1.54	0	0.40	138 P
U47101_al	9	0	20	20	18.045	1.92	0	0 Inf	138 P
M97287_al	8	2	20	20	18.040	1.29	1	2.40	137 P
AFEX-M27	9	0	20	20	18.045	2.11	0	0 Inf	136 P
U51240_al	7	1	20	20	18.035	1.11	0	0.70	136 P
U49070_al	8	0	20	20	18.040	1.08	0	0 Inf	135 P
M33195_al	9	1	20	20	18.045	1.29	0	0.90	133 P
M59830_al	11	3	20	20	18.055	1.45	1	0.37	133 P
U07802_al	10	2	20	20	17.050	1.85	0	0.50	133 P
U39317_al	7	2	20	20	18.035	2.00	1	0.35	132 P
U61374_al	9	1	20	20	18.045	1.43	0	0.90	132 P
M98776_r	9	1	20	20	18.045	1.12	0	0.90	130 P
M22877_al	14	1	20	20	17.070	2.26	1	0.14.0	129 P
M91036_r	7	1	20	20	18.035	0.98	0	0.70	128 P
S77763_al	9	2	20	20	18.045	1.34	0	0.45	126 P
U58334_al	7	0	20	20	17.035	0.92	0	0 Inf	125 P

Side 5

Connective tissue B

M64929_at	10	1	20	20	18 0.50	2.14	1	0.10.0	124 P
S72008_at	10	0	20	20	17 0.50	2.43	1	0 Inf	124 P
M35416_at	9	3	20	20	18 0.45	1.39	0	0.30	122 P
M37721_at	12	3	20	20	18 0.60	2.38	1	0.40	122 P
M55671_at	8	1	20	20	18 0.40	1.97	1	0.80	122 P
M27492_at	9	1	20	20	18 0.45	1.71	1	0.90	121 P
U52969_at	7	1	20	20	18 0.35	1.15	0	0.70	118 P
M55542_at	13	2	20	20	18 0.65	3.06	3	0.65	117 P
S81419_at	8	1	20	20	18 0.40	1.23	0	0.80	117 P
U01147_at	8	1	20	20	18 0.40	1.42	0	0.80	116 P
U10439_at	8	1	20	20	18 0.40	1.89	0	0.80	116 P
M59916_at	8	2	20	20	18 0.40	1.19	0	0.40	115 P
U24152_at	8	2	20	20	18 0.40	1.26	0	0.40	115 P
M74524_at	7	0	20	20	18 0.35	2.07	1	0 Inf	114 P
M83738_at	8	2	20	20	18 0.40	1.98	1	0.40	114 P
S43646_at	7	2	20	20	18 0.35	1.31	0	0.35	114 P
U00952_at	9	2	20	20	18 0.45	1.64	1	0.45	114 P
U09770_at	8	1	20	20	17 0.40	1.08	0	0.80	114 P
U15782_at	7	1	20	20	18 0.35	1.66	0	0.70	114 P
U40369_at	9	1	20	20	18 0.45	1.88	1	0.90	113 P
M23197_at	9	0	20	20	18 0.45	1.35	0	0 Inf	111 P
U14193_at	8	2	20	20	17 0.40	1.13	0	0.40	109 P
U37518_at	7	2	20	20	18 0.35	1.69	0	0.35	109 P
U02082_at	11	0	20	20	18 0.55	1.54	0	0 Inf	108 P
U47742_at	9	2	20	20	18 0.45	1.57	1	0.45	108 P
U50553_at	8	0	20	20	18 0.45	1.20	0	0 Inf	108 P
U51925_at	9	1	20	20	18 0.45	2.12	0	0.90	106 P
U25171_at	8	1	20	20	17 0.40	1.16	0	0.80	104 P
M63603_at	10	2	20	20	18 0.50	1.51	0	1.50	103 P
U07358_at	9	2	20	20	18 0.45	1.51	1	0.45	103 P
U16031_at	9	3	20	20	18 0.45	1.50	1	0.30	103 P
S83366_at	9	2	20	20	18 0.45	1.76	0	0.45	101 P
M80482_at	7	1	20	20	18 0.35	1.34	0	0.70	100 P
M86803_at	7	1	20	20	18 0.35	1.49	1	0.70	99 P
S77415_at	9	2	20	20	18 0.45	2.53	2	0.45	96 P
M30894_at	8	0	20	20	18 0.40	1.47	0	0 Inf	95 P
S71018_at	7	0	20	20	18 0.35	1.12	0	0 Inf	95 P
U13695_at	11	0	20	20	18 0.55	2.52	0	0 Inf	95 P
U39400_at	10	3	20	20	18 0.50	1.61	0	0.33	95 P
M77698_at	9	3	20	20	18 0.45	1.45	1	0.30	94 P
U37251_at	10	1	20	20	18 0.50	2.32	1	0.10.0	92 P
M90596_at	10	2	20	20	18 0.50	1.61	1	0.50	91 P
U28386_at	9	3	20	20	18 0.45	1.71	3	1.30	89 P
U08989_at	9	0	20	20	18 0.45	2.73	2	0 Inf	88 P
S67156_at	8	0	20	20	18 0.40	1.84	0	0 Inf	86 P
U28686_at	9	1	20	20	18 0.45	1.70	0	1.90	85 P
U35048_at	10	1	20	20	17 0.50	2.17	1	0.10.0	83 P
M30269_at	7	2	20	20	18 0.35	2.00	2	0.35	82 P
M34309_at	9	3	20	20	18 0.45	1.72	1	0.30	82 P
M37197_at	10	2	20	20	18 0.50	1.60	0	0.50	82 P
U45976_at	11	1	20	20	18 0.55	2.70	0	0.11.0	80 P
S80562_at	9	2	20	20	18 0.45	2.06	1	1.45	77 P

Side 6

Connective tissue B									
U33818_al	9	1	20	20	18.045	0.99	0	1.9.0	77 P
M22995_al	9	0	20	20	18.045	1.52	0	0 Inf	76 P
U14747_al	8	2	20	20	18.040	1.09	0	0.4.0	76 P
M81118_al	9	3	20	20	18.045	1.52	2	1.3.0	75 P
M28983_al	7	2	20	20	18.035	1.30	1	0.3.5	74 P
M65217_al	9	3	20	20	18.045	2.24	2	0.3.0	72 P
M37825_al	10	3	20	20	18.050	1.50	0	0.3.3	70 P
M54992_al	10	3	20	20	18.050	1.38	0	0.3.3	70 P
U10117_al	9	3	20	20	18.045	1.52	1	0.3.0	70 P
U12471_al	7	2	20	20	18.035	1.55	0	0.3.5	70 P
U18242_al	9	2	20	20	18.045	2.09	0	0.4.5	70 P
U26032_al	9	3	20	20	18.045	1.63	1	0.3.0	70 P
M32886_al	10	2	20	20	17.050	0.94	0	0.5.0	66 P
U18291_al	9	2	20	20	18.045	2.25	1	0.4.5	66 P
S76985_al	8	2	20	20	18.040	1.70	2	0.4.0	65 P
U23070_al	9	3	20	20	18.045	1.44	2	0.3.0	65 P
M81379_al	7	1	20	20	18.035	1.05	0	0.7.0	63 P
U49436_al	10	2	20	20	18.050	2.41	2	0.5.0	63 P
M25393_al	9	3	20	20	18.045	1.61	1	1.3.0	62 P
M88579_al	9	3	20	20	18.045	1.74	2	0.3.0	62 P
M62397_al	9	2	20	20	18.045	1.92	1	0.4.5	60 P
M63623_al	7	2	20	20	18.035	1.40	0	0.3.5	57 P
U23942_al	7	0	20	20	18.035	1.40	0	0 Inf	56 P
U18062_al	8	1	20	20	18.040	1.83	1	0.8.0	50 P
S67798_al	8	2	20	20	18.040	1.33	0	0.4.0	49 P
M74093_al	8	2	20	20	18.040	1.09	0	0.4.0	48 P
U00951_al	8	2	20	20	18.040	1.61	1	0.4.0	47 P
U50939_al	7	2	20	20	18.035	1.47	1	0.3.5	46 P
U24576_al	8	2	20	20	18.040	2.15	1	0.4.0	42 P
U07151_al	8	2	20	20	18.040	1.14	0	0.4.0	40 P
U38810_al	8	1	20	20	18.040	1.37	1	0.8.0	40 P
U13948_al	9	2	20	20	18.045	1.61	1	0.4.5	37 P
S78569_al	7	1	20	20	18.035	0.99	0	0.7.0	35 P
U28833_al	7	1	20	20	18.035	1.04	0	1.7.0	33 P
U29615_al	8	2	20	20	18.040	1.05	0	0.4.0	33 P
M81862_al	8	2	20	20	18.040	1.65	1	0.4.0	31 P
U57452_al	7	1	20	20	18.035	0.96	0	0.7.0	29 P

Gene Name	Connective tissue C										Avg Diff	Abs Call
	Posit	Negat	Pair	Pos	Fractl	Log Avg	PM	Ex	MM	Excess	Pos/Neg	
Z23090_at	20	0	20	20	18 1.00	6.28	1			0 Inf		9609 P
Z70759_at	20	0	20	20	18 1.00	8.75	11			0 Inf		7648 P
Z12982_at	18	0	20	20	18 0.90	6.95	3			0 Inf		7468 P
X07695_at	20	0	20	20	18 1.00	6.77	2			0 Inf		7458 P
hum_aliu_at	69	0	69	69	67 1.00	7.07	11			0 Inf		7071 P
X69150_at	19	0	20	20	18 0.95	7.89	8			0 Inf		6256 P
X17206_at	20	0	20	20	18 1.00	7.81	8			0 Inf		4928 P
X16064_at	19	0	20	20	18 0.95	8.14	6			0 Inf		4572 P
X56932_at	20	0	20	20	18 1.00	7.69	5			0 Inf		4210 P
AFFX-HUMGAPDH/M33197_3_at	20	0	20	20	18 1.00	7.15	2			0 Inf		4188 P
AFFX-HSAC07/X00351_M_at	20	0	20	20	18 1.00	6.52	1			0 Inf		3970 P
X60822_at	19	0	20	20	18 0.95	6.50	1			0 Inf		3963 P
X03342_at	20	0	20	20	18 1.00	7.76	5			0 Inf		3818 P
X67247_ma1_at	20	0	20	20	18 1.00	8.34	6			0 Inf		3725 P
X06617_at	20	0	20	20	18 1.00	6.38	2			0 Inf		3387 P
X15940_at	19	0	20	20	18 0.95	7.29	5			0 Inf		3375 P
X63527_at	19	0	20	20	18 0.95	7.71	7			0 Inf		3282 P
X05908_at	19	0	20	20	18 0.95	8.70	8			0 Inf		3217 P
AFFX-CreX-3_at	19	0	20	20	18 0.95	8.12	6			0 Inf		3155 P
AFFX-HSAC07/X00351_3_at	20	0	20	20	18 1.00	6.57	2			0 Inf		2994 P
X73460_at	19	0	20	20	18 0.95	6.62	3			0 Inf		2949 P
X62691_at	20	0	20	20	18 1.00	7.33	4			0 Inf		2885 P
AFFX-HSAC07/X00351_5_at	19	0	20	20	18 0.95	6.46	1			0 Inf		2782 P
X00274_at	20	0	20	20	18 1.00	7.97	8			0 Inf		2780 P
AFFX-HUMGAPDH/M33197_M_at	18	0	20	20	18 0.90	5.92	0			0 Inf		2639 P
X79234_at	20	0	20	20	18 1.00	8.10	4			0 Inf		2602 P
X55954_at	20	0	20	20	18 1.00	7.53	6			0 Inf		2495 P
Z26876_at	20	0	20	20	18 1.00	7.65	6			0 Inf		2490 P
Z28407_at	17	0	20	20	18 0.85	5.59	1			0 Inf		2386 P
Y07755_at	19	0	20	20	18 0.95	7.10	2			0 Inf		2378 P
X64707_at	19	0	20	20	18 0.95	5.87	2			0 Inf		2268 P
AFFX-CreX-5_at	19	0	20	20	18 0.95	7.77	3			0 Inf		2185 P
U78027_ma3_at	18	2	20	20	18 0.90	7.38	6			0 9.0		2156 P
X67683_at	19	0	20	20	18 0.95	5.62	1			0 Inf		2126 P
AFFX-HUMGAPDH/M33197_5_at	19	0	20	20	18 0.95	7.18	6			0 Inf		2120 P
X69391_at	19	0	20	20	18 0.95	7.24	4			0 Inf		2094 P
AB002533_at	18	0	20	20	18 0.90	5.92	0			0 Inf		2063 P
X68277_at	19	0	20	20	18 0.95	8.28	7			0 Inf		1972 P
X53777_at	18	1	20	20	18 0.90	7.13	6			0 18.0		1915 P
X55715_at	20	0	20	20	18 1.00	7.32	2			0 Inf		1744 P
X52851_ma1_at	20	0	20	20	18 1.00	6.55	3			0 Inf		1727 P
X67951_at	19	0	20	20	18 1.00	6.97	2			0 Inf		1472 P
X77584_at	20	0	20	20	18 0.95	7.09	3			0 Inf		1470 P
X02152_at	18	0	20	20	18 0.90	6.79	2			0 Inf		1432 P
X57959_at	19	0	20	20	18 0.95	7.24	3			0 Inf		1426 P
X13839_at	18	0	20	20	18 0.90	6.61	3			0 Inf		1405 P
AFFX-BioDn-3_at	17	2	20	20	18 0.85	4.13	0			0 8.5		1401 P
X52966_at	17	1	20	20	18 0.85	6.56	5			0 17.0		1361 P
X15341_at	20	0	20	20	18 1.00	6.91	6			0 Inf		1338 P
X56997_ma1_at	17	0	20	20	18 0.85	5.20	2			0 Inf		1308 P

Side 1

Connective tissue C									
U70370_at	12	-2	20	20	20	18.060	2.66	1	0.60
X91504_at	11	1	20	20	20	18.055	1.54	0	0.110
U73843_at	13	1	20	20	20	18.065	3.39	1	0.130
L20688_at	13	0	20	20	20	18.065	2.63	0	0.1nf
X16662_at	14	2	20	20	20	18.070	3.64	1	0.70
X54304_at	15	0	20	20	20	18.075	3.90	0	0.1nf
Y00764_at	17	1	20	20	20	18.085	5.54	2	0.170
Z29505_at	18	0	20	20	20	18.090	4.62	0	0.1nf
U90878_at	16	1	20	20	20	18.080	5.35	0	0.160
Z21507_at	15	1	20	20	20	18.075	4.26	0	0.150
Z32765_at	11	1	20	20	20	18.055	2.00	0	0.110
X60221_at	17	1	20	20	20	18.085	5.00	0	0.170
X62320_at	10	0	20	20	20	18.050	2.31	0	0.1nf
X83218_at	17	0	20	20	20	18.085	5.26	0	0.1nf
X52003_at	9	2	20	20	20	18.045	2.33	0	0.45
X15882_at	11	2	20	20	20	18.055	1.84	0	0.55
X17042_at	16	0	20	20	20	17.080	5.83	3	0.1nf
X78136_at	15	1	20	20	20	18.075	4.66	0	0.150
Y00486_rna1_at	8	0	20	20	20	18.040	1.74	0	0.1nf
X13794_rna1_at	16	1	20	20	20	18.080	4.91	1	0.160
U70735_at	17	0	20	20	20	18.085	3.57	0	0.1nf
X71973_at	12	1	20	20	20	18.060	2.30	0	0.120
U78521_at	9	0	20	20	20	18.045	1.26	0	0.1nf
U94855_at	18	0	20	20	20	18.090	4.74	0	0.1nf
D29805_at	11	3	20	20	20	18.055	2.57	1	0.37
X75861_at	16	1	20	20	20	18.080	4.65	1	0.160
AFFX-BioDn-5_at	13	0	20	20	20	18.065	3.14	0	0.130
U77604_at	15	2	20	20	20	18.075	3.54	0	0.75
X90858_at	11	1	20	20	20	18.055	1.89	0	0.110
X86809_at	14	0	20	20	20	18.070	3.84	0	0.1nf
X80692_at	7	0	20	20	20	17.035	1.41	0	0.1nf
U72512_at	14	0	20	20	20	18.070	3.92	2	0.1nf
X55733_at	14	2	20	20	20	18.070	3.22	0	0.70
Y00281_at	17	0	20	20	20	18.085	3.76	0	0.1nf
U90313_at	15	2	20	20	20	18.075	3.43	1	0.75
X81817_at	10	1	20	20	20	18.050	1.74	0	0.100
Z48199_at	10	0	20	20	20	18.050	2.03	0	0.1nf
U77594_at	10	2	20	20	20	18.050	2.92	1	0.50
X75593_at	18	0	20	20	20	17.090	6.43	5	0.1nf
Z14244_at	18	1	20	20	20	18.090	4.44	0	0.180
X91247_at	11	1	20	20	20	18.055	2.03	1	0.110
X06985_at	12	1	20	20	20	18.060	2.72	0	0.120
X76180_at	10	1	20	20	20	18.050	2.26	0	0.100
X76717_at	11	0	20	20	20	18.055	1.75	0	0.1nf
U65785_at	13	0	20	20	20	18.065	3.06	0	0.1nf
X91257_at	16	0	20	20	20	18.080	4.72	1	0.1nf
X87838_at	12	1	20	20	20	18.060	3.02	0	0.120
X75252_at	12	0	20	20	20	18.060	2.12	0	0.1nf
X97074_at	14	2	20	20	20	18.070	3.23	0	0.70
X16135_at	9	1	20	20	20	18.045	1.72	0	0.90
X96888_at	13	2	20	20	20	17.065	1.94	0	0.65
U34569_at									

Side 3

Connective tissue C									
X13444_at	9	0	20	20	18.045	1.61	0	0 Inf	241 P
U70732_ma1_at	9	2	20	20	18.045	1.35	0	0 4.5	240 P
X71428_at	11	1	20	20	18.055	2.25	0	0 11.0	240 P
U83115_at	13	0	20	20	18.065	3.05	1	0 Inf	239 P
X82434_at	11	0	20	20	18.055	1.84	0	0 Inf	237 P
X59417_at	14	2	20	20	18.070	2.91	1	1 7.0	231 P
X57346_at	13	1	20	20	17.055	3.80	0	0 13.0	230 P
X85785_ma1_at	9	0	20	20	18.045	1.61	0	0 Inf	229 P
X13546_ma1_at	15	0	20	20	17.075	2.97	0	0 Inf	222 P
X52730_ma1_at	8	0	20	20	18.040	1.24	0	0 Inf	222 P
X74104_at	15	1	20	20	18.075	4.00	1	0 15.0	222 P
U66879_at	9	2	20	20	17.045	2.00	0	0 4.5	221 P
Z27113_at	11	1	20	20	18.055	2.14	0	0 11.0	221 P
U66059_cds7_at	10	1	20	20	18.050	1.73	0	0 10.0	220 P
D13146_cds1_at	7	0	20	20	18.035	1.70	0	0 Inf	218 P
AFX-BioC-5_at	16	0	20	20	18.080	3.02	0	0 Inf	217 P
X69910_at	15	1	20	20	18.075	3.67	0	0 15.0	217 P
U78678_at	9	1	20	20	18.045	1.58	0	0 9.0	215 P
X76013_at	11	1	20	20	18.055	2.70	0	0 11.0	215 P
U70867_at	9	1	20	20	18.045	1.44	0	0 9.0	212 P
X69433_at	9	1	20	20	18.045	2.12	0	0 9.0	212 P
X96924_ma1_at	7	1	20	20	18.035	1.37	0	0 7.0	212 P
U77827_at	9	0	20	20	18.045	1.98	1	0 Inf	209 P
X69908_ma1_at	9	2	20	20	18.045	2.00	1	0 4.5	209 P
X80200_at	10	1	20	20	17.050	2.04	0	0 10.0	208 P
Z11793_at	15	1	20	20	18.075	4.49	4	0 15.0	208 P
U81556_at	12	2	20	20	18.060	2.25	0	0 6.0	207 P
U67963_at	9	1	20	20	18.045	2.10	0	0 9.0	206 P
X99585_at	14	1	20	20	18.070	4.48	1	0 14.0	206 P
U68566_at	10	2	20	20	18.050	1.94	0	0 5.0	204 P
U77396_at	8	0	20	20	18.040	1.53	0	0 Inf	201 P
U88629_at	12	1	20	20	18.060	3.30	0	0 12.0	199 P
X02612_at	12	1	20	20	18.060	2.99	0	0 12.0	199 P
X15187_at	14	1	20	20	18.070	3.68	0	0 14.0	199 P
Y00282_at	14	0	20	20	18.070	3.70	1	0 Inf	199 P
U85611_at	11	1	20	20	18.055	2.16	0	0 11.0	192 P
X72964_at	12	0	20	20	18.060	2.74	0	0 Inf	192 P
U73379_at	12	0	20	20	17.060	1.94	0	0 Inf	191 P
X56253_ma1_at	12	1	20	20	18.060	2.65	1	0 12.0	191 P
X64599_at	10	1	20	20	18.050	1.50	0	0 10.0	190 P
U86529_at	7	0	20	20	18.035	1.56	0	0 Inf	189 P
X04366_at	11	1	20	20	18.055	2.47	0	0 11.0	188 P
X52947_at	14	0	20	20	18.070	5.43	2	0 Inf	188 P
U70663_at	8	0	20	20	18.040	1.58	0	0 Inf	187 P
X89750_at	19	0	20	20	18.085	4.23	0	0 Inf	186 P
U08976_at	9	1	20	20	18.045	1.58	0	0 9.0	185 P
X69699_at	7	0	20	20	18.035	1.59	0	0 Inf	183 P
X01388_at	7	1	20	20	18.035	1.02	0	0 7.0	182 P
U70063_at	9	3	20	20	18.045	2.13	0	0 3.0	176 P
U72517_at	10	2	20	20	18.050	1.55	0	0 5.0	175 P
X76228_at	11	1	20	20	18.055	2.50	0	0 11.0	175 P
X78549_at	13	0	20	20	17.065	1.73	1	0 Inf	175 P

Side 4

Connective tissue C									
	7	0	20	20	18.035	1.05	0	0 Inf	174 P
Z14000_at	13	1	20	20	18.065	4.22	0	0 13.0	165 P
U79254_at	9	0	20	20	18.045	1.84	0	0 Inf	165 P
X62078_at	10	3	20	20	18.050	1.40	0	0 3.3	163 P
U94585_at	11	1	20	20	18.055	1.50	0	0 11.0	162 P
U72066_at	9	1	20	20	18.045	2.60	0	0 9.0	161 P
U88964_at	9	1	20	20	18.045	1.35	0	0 9.0	160 P
U70660_at	16	0	20	20	17.080	3.99	2	0 Inf	160 P
X52541_at	16	0	20	20	18.080	3.20	0	0 Inf	160 P
X95588_at	10	1	20	20	17.050	1.89	1	0 10.0	159 P
X71129_at	8	0	20	20	18.040	1.55	0	0 Inf	158 P
X53416_at	8	1	20	20	18.040	1.58	0	0 8.0	157 P
X12794_at	13	0	20	20	18.065	3.44	0	0 Inf	157 P
X61970_at	9	1	20	20	18.045	1.61	0	0 9.0	157 P
Z37986_at	12	1	20	20	18.060	2.60	0	0 12.0	157 P
J04182_at	11	1	20	20	18.055	2.12	0	0 11.0	156 P
AFFX-BioC-3_at	12	2	20	20	18.060	4.02	0	1 6.0	155 P
X14787_at	10	0	20	20	18.050	2.78	1	0 Inf	155 P
X62535_at	11	0	20	20	18.055	2.75	1	0 Inf	155 P
X85373_at	10	1	20	20	18.050	1.71	0	0 10.0	154 P
X96484_at	9	0	20	20	18.045	1.80	0	0 Inf	154 P
X98311_at	12	0	20	20	18.060	2.47	0	0 Inf	154 P
L00205_at	14	1	20	20	18.050	1.87	0	0 5.0	153 P
X16316_at	11	0	20	20	17.070	2.22	0	0 14.0	152 P
U69263_at	13	1	20	20	18.055	3.34	0	0 Inf	152 P
X74801_at	7	0	20	20	18.065	2.19	0	0 13.0	151 P
U70322_at	7	0	20	20	18.035	1.09	0	0 Inf	151 P
D86988_at	11	1	20	20	18.055	2.59	1	0 11.0	150 P
V00563_at	7	2	20	20	18.035	1.35	0	0 3.5	150 P
X76029_at	9	3	20	20	18.045	1.83	0	0 3.0	148 P
U78798_at	12	2	20	20	18.060	1.80	0	0 6.0	148 P
X90872_at	7	1	20	20	18.035	1.34	1	0 7.0	147 P
U78524_at	9	2	20	20	17.045	1.39	0	0 4.5	147 P
X04500_at	12	1	20	20	18.060	2.05	0	0 12.0	146 P
X12791_at	12	1	20	20	18.060	2.67	0	0 12.0	146 P
X80199_at	9	2	20	20	18.045	1.76	0	0 4.5	146 P
X83425_at	9	2	20	20	18.045	1.96	0	0 4.5	145 P
X13967_at	9	2	20	20	18.045	1.96	0	0 4.5	145 P
X63422_at	9	3	20	20	17.045	2.55	0	0 4.5	145 P
X74008_at	12	0	20	20	18.045	2.32	1	0 3.0	145 P
X99920_at	12	0	20	20	18.060	2.96	1	0 Inf	145 P
Z50022_at	11	1	20	20	18.060	1.68	0	0 12.0	145 P
X74795_at	11	3	20	20	17.055	2.46	0	0 3.7	143 P
X68733_ma1_at	8	0	20	20	18.040	1.30	0	0 Inf	142 P
X76534_at	15	0	20	20	17.075	4.66	1	0 Inf	142 P
X82456_at	15	0	20	20	18.075	3.79	1	0 Inf	142 P
Z47727_at	12	0	20	20	18.060	2.81	0	0 Inf	142 P
U82010_ma1_at	12	0	20	20	18.060	2.54	1	0 Inf	141 P
U70451_at	7	1	20	20	18.035	1.19	0	0 7.0	139 P
X17620_at	8	2	20	20	18.040	1.31	0	0 4.0	139 P
X76770_at	13	1	20	20	18.065	3.07	0	0 13.0	139 P
AFFX-HUMRGE/M10098_5_at	10	2	20	20	18.050	2.39	0	0 5.0	138 P
U68063_at	14	0	20	20	18.070	3.15	0	0 Inf	137 P

Side 5

Connective tissue C									
U77948_at	14	0	20	20	18 0.70	3.86	0	0 Inf	137 P
D50405_at	11	1	20	20	18 0.55	1.94	0	0 11.0	137 P
HG651-HT4201_at	7	0	20	20	18 0.35	1.44	0	0 Inf	136 P
U89336_cds3_at	10	0	20	20	18 0.50	1.83	0	0 Inf	134 P
X76342_at	13	2	20	20	18 0.65	2.84	0	0 6.5	132 P
X54232_at	10	1	20	20	17 0.50	1.70	0	0 10.0	131 P
X70476_at	12	0	20	20	17 0.60	2.84	1	0 Inf	131 P
U68488_at	9	1	20	20	18 0.45	1.34	0	0 9.0	130 P
X01060_at	14	2	20	20	18 0.70	2.96	0	0 7.0	130 P
X14675_at	9	0	20	20	18 0.45	1.41	0	0 Inf	130 P
Y10032_at	14	4	20	20	18 0.70	2.96	3	1 3.5	130 P
D16105_at	8	1	20	20	18 0.40	1.31	0	0 8.0	130 P
U86070_at	11	3	20	20	18 0.55	1.48	0	0 3.7	128 P
Z24725_at	15	0	20	20	18 0.75	4.60	2	0 Inf	128 P
X52882_at	11	0	20	20	18 0.55	2.22	0	0 Inf	127 P
L00058_at	10	0	20	20	18 0.50	2.95	1	0 Inf	127 P
U96915_at	10	1	20	20	18 0.50	1.94	0	0 10.0	126 P
X64364_at	7	0	20	20	17 0.35	1.30	0	0 Inf	126 P
X88779_at	7	0	20	20	17 0.35	1.19	0	0 Inf	125 P
Z84721_cds2_at	12	4	20	20	18 0.60	1.56	0	0 3.0	125 P
X03656_ma1_at	10	2	20	20	17 0.50	1.82	1	0 5.0	124 P
X82895_at	9	1	20	20	18 0.45	1.91	0	0 9.0	124 P
Y09616_at	12	2	20	20	17 0.60	2.08	0	0 6.0	121 P
U67784_at	10	1	20	20	18 0.50	1.97	0	0 10.0	120 P
U80040_at	11	2	20	20	18 0.55	1.66	0	0 5.5	120 P
X72755_at	16	2	20	20	17 0.80	3.66	0	0 8.0	120 P
X60592_at	10	2	20	20	18 0.50	1.12	0	0 5.0	119 P
AFFX-HUMISGF3A/M97935_3_at	12	1	20	20	18 0.60	3.01	2	0 12.0	118 P
U78793_at	10	2	20	20	17 0.50	2.45	0	0 5.0	118 P
X12451_at	12	0	20	20	18 0.60	3.43	2	0 Inf	118 P
X75342_at	11	2	20	20	17 0.55	1.51	0	0 5.5	117 P
X01630_at	10	1	20	20	18 0.50	2.24	1	0 10.0	114 P
X82153_at	13	0	20	20	18 0.65	2.42	0	0 Inf	114 P
L11066_at	7	1	20	20	18 0.35	0.93	0	0 7.0	114 P
U90426_at	12	0	20	20	18 0.60	3.55	1	0 Inf	113 P
U91932_at	11	1	20	20	17 0.55	2.45	0	0 11.0	113 P
X92098_at	10	0	20	20	18 0.50	2.12	0	0 Inf	113 P
Y08134_at	8	1	20	20	18 0.40	1.74	0	0 8.0	113 P
U79260_at	7	0	20	20	18 0.35	1.62	0	0 Inf	112 P
U89336_cds1_at	10	1	20	20	18 0.50	2.01	0	0 10.0	112 P
X05409_at	7	1	20	20	18 0.35	1.29	0	0 7.0	112 P
X95735_at	10	1	20	20	18 0.50	1.85	1	0 10.0	112 P
Y11681_at	8	1	20	20	18 0.40	1.40	0	0 8.0	112 P
U97105_at	12	0	20	20	18 0.60	2.89	0	0 Inf	111 P
X03934_at	10	0	20	20	17 0.50	1.55	0	0 Inf	111 P
X61123_at	14	0	20	20	17 0.70	4.15	2	0 Inf	111 P
X73113_at	9	2	20	20	18 0.45	1.12	0	0 4.5	111 P
X86163_at	11	1	20	20	18 0.55	2.44	0	0 11.0	111 P
U79267_at	14	0	20	20	17 0.70	2.31	0	0 Inf	110 P
X15414_at	10	0	20	20	17 0.50	1.76	0	0 Inf	110 P
U82671_cds2_at	8	0	20	20	18 0.40	1.72	0	0 Inf	109 P
X99728_at	9	2	20	20	18 0.45	1.44	0	0 4.5	109 P

Side 6

Connective tissue C									
L10413_at	12	1	20	20	18.060	1.98	0	0.12.0	109 P
U79262_at	10	3	20	20	18.050	1.87	0	0.3.3	106 P
U78556_at	11	1	20	20	18.055	2.08	0	0.11.0	104 P
Z50194_at	12	2	20	20	18.060	2.75	1	0.6.0	103 P
X16416_at	7	1	20	20	18.035	1.51	0	0.7.0	102 P
X70340_at	7	0	20	20	18.035	1.68	0	0.1nf	101 P
Y00815_at	12	0	20	20	18.060	2.85	1	0.1nf	101 P
X62744_at	7	2	20	20	18.035	1.34	0	0.3.5	100 P
X65873_at	12	3	20	20	18.060	2.43	1	0.4.0	100 P
X02530_at	9	1	20	20	18.045	2.34	0	0.9.0	99 P
X71874_cds1_at	8	1	20	20	18.040	1.24	0	0.8.0	99 P
U90913_at	9	0	20	20	18.045	1.97	0	0.1nf	98 P
Z35093_at	9	1	20	20	18.045	1.74	0	0.9.0	98 P
Z36531_at	13	2	20	20	18.065	2.63	0	0.6.5	98 P
Z48042_at	10	1	20	20	18.050	1.45	0	0.10.0	98 P
X82200_at	10	2	20	20	18.050	2.28	0	0.5.0	97 P
X06323_at	16	0	20	20	18.080	3.63	0	0.1nf	96 P
X52151_at	9	1	20	20	18.045	1.37	0	0.9.0	95 P
U83483_at	12	1	20	20	17.060	3.70	2	0.12.0	95 P
X93499_at	11	1	20	20	17.055	2.14	0	0.11.0	95 P
HG2743-HT2845_at	10	1	20	20	17.050	2.62	2	0.10.0	95 P
X74295_at	9	1	20	20	18.045	0.94	0	0.9.0	94 P
X80695_at	9	2	20	20	18.045	1.32	0	0.4.5	94 P
X92744_at	9	0	20	20	17.045	1.72	0	0.1nf	94 P
Z47087_at	14	1	20	20	17.070	3.25	0	0.14.0	94 P
U86782_at	14	0	20	20	18.070	3.19	0	0.1nf	93 P
X77794_at	14	1	20	20	17.070	3.63	1	0.14.0	93 P
U89278_at	8	2	20	20	18.040	0.95	0	0.4.0	91 P
X76732_at	13	0	20	20	18.065	3.90	0	0.1nf	91 P
X80910_at	10	0	20	20	18.050	2.51	0	0.1nf	91 P
U81802_at	7	1	20	20	18.035	1.52	0	0.7.0	90 P
X66401_cds1_at	12	1	20	20	18.060	2.65	0	0.12.0	90 P
X97302_at	8	0	20	20	17.040	1.60	0	0.1nf	90 P
X54942_at	11	1	20	20	18.055	2.13	1	0.11.0	89 P
X62486_at	8	2	20	20	17.040	2.09	0	0.4.0	89 P
X76104_at	7	2	20	20	18.035	1.34	0	0.3.5	89 P
X81003_at	11	0	20	20	18.055	2.07	0	0.1nf	89 P
X98283_at	13	0	20	20	17.065	2.37	0	0.1nf	89 P
U79287_at	8	0	20	20	18.040	1.56	0	0.1nf	88 P
U86502_at	8	1	20	20	18.040	1.57	0	0.8.0	88 P
X57786_at	9	2	20	20	18.045	1.69	1	0.4.5	88 P
Y08999_at	12	2	20	20	18.060	2.04	2	0.6.0	88 P
U72209_at	9	2	20	20	17.045	1.32	1	0.4.5	87 P
X85372_at	11	1	20	20	18.055	2.53	1	0.11.0	87 P
Y08915_at	9	0	20	20	18.045	1.86	0	0.1nf	87 P
U90919_at	13	0	20	20	18.065	3.25	0	0.1nf	86 P
X64838_at	11	1	20	20	18.055	1.77	0	0.11.0	84 P
Z69720_at	9	2	20	20	18.045	1.51	0	0.4.5	83 P
U82130_at	12	0	20	20	18.060	2.44	0	0.1nf	82 P
U90909_at	12	0	20	20	18.060	3.01	0	0.1nf	82 P
X78925_at	10	1	20	20	18.050	2.34	1	0.10.0	82 P
U90716_at	7	1	20	20	18.035	1.53	0	0.7.0	81 P

Side 7

Connective tissue C									
X98261_at	9	2	20	20	18.045	1.18	0	0.45	81 P
AFX-m27830_5_at	7	0	20	20	18.035	1.44	0	0 Inf	80 P
U90547_at	10	1	20	20	17.050	2.10	1	1.10.0	80 P
X66364_at	8	1	20	20	18.040	0.91	0	0.8.0	80 P
Z22548_at	8	1	20	20	17.040	1.97	0	0.8.0	80 P
Z50853_at	11	2	20	20	18.055	1.81	0	0.5.5	80 P
X78520_at	9	0	20	20	18.045	1.63	0	0 Inf	79 P
U96113_at	11	1	20	20	18.055	3.13	1	0.11.0	78 P
X68560_at	10	0	20	20	18.050	2.62	0	0 Inf	78 P
Z37166_at	10	0	20	20	17.050	1.47	0	0 Inf	78 P
U81006_at	10	0	20	20	18.050	3.41	1	0 Inf	76 P
U81607_at	9	1	20	20	18.045	2.66	2	0.9.0	76 P
U90911_at	10	0	20	20	18.050	3.00	0	0 Inf	76 P
X56807_at	8	2	20	20	18.040	1.60	0	0.4.0	76 P
X69141_at	11	1	20	20	18.055	2.22	0	0.11.0	76 P
X93921_at	9	3	20	20	18.045	1.61	0	0.3.0	76 P
X87176_at	9	2	20	20	18.045	1.61	0	0.4.5	75 P
Z23064_at	10	2	20	20	18.050	2.21	0	0.5.0	75 P
X61100_ma1_at	11	2	20	20	18.055	2.99	1	1.5.5	74 P
X63679_at	13	1	20	20	18.065	3.39	2	0.13.0	74 P
Y12711_at	12	1	20	20	18.060	2.00	2	1.12.0	73 P
Z72499_at	10	2	20	20	17.050	2.51	1	0.5.0	73 P
X83973_at	8	2	20	20	18.040	1.79	0	0.4.0	72 P
X84373_at	12	0	20	20	18.060	3.15	1	0 Inf	72 P
Y08614_at	7	2	20	20	18.035	1.33	0	0.3.5	72 P
Z29064_at	11	1	20	20	18.055	2.56	0	0.11.0	72 P
U80017_ma3_at	11	0	20	20	18.055	2.55	1	0 Inf	71 P
X72177_ma1_at	11	3	20	20	18.055	1.45	0	0.3.7	71 P
X80230_at	10	1	20	20	18.050	2.04	1	0.10.0	71 P
X63753_at	10	1	20	20	18.050	2.63	1	0.10.0	70 P
X64330_at	9	2	20	20	18.045	1.59	0	0.4.5	70 P
X81198_at	7	1	20	20	18.035	2.33	1	0.7.0	70 P
X83378_at	10	2	20	20	17.050	1.68	0	0.5.0	70 P
X98001_at	8	1	20	20	18.040	1.30	0	0.8.0	70 P
U65928_at	13	1	20	20	18.065	1.82	0	0.13.0	69 P
U70426_at	8	2	20	20	18.040	1.24	0	0.4.0	69 P
X79353_at	7	1	20	20	18.035	1.61	1	0.7.0	69 P
U76992_at	9	2	20	20	18.045	1.85	1	0.4.5	68 P
U87408_at	7	1	20	20	18.035	1.05	0	0.7.0	68 P
X07767_at	7	2	20	20	17.035	1.41	0	0.3.5	68 P
X63563_at	7	1	20	20	18.035	2.04	1	0.7.0	68 P
Y07867_at	10	2	20	20	18.050	2.61	0	0.5.0	68 P
X77548_at	7	1	20	20	18.035	1.43	0	0.7.0	67 P
Y11306_ma1_at	8	2	20	20	18.040	1.81	1	1.4.0	67 P
Z22865_at	8	2	20	20	18.040	1.48	0	0.4.0	67 P
AFX-BioB-3_at	11	1	20	20	18.055	1.24	0	0.11.0	66 P
X57522_at	11	3	20	20	18.055	2.04	0	0.3.7	65 P
X91788_at	12	3	20	20	18.060	2.03	0	0.4.0	65 P
U91327_at	8	2	20	20	17.040	2.45	1	0.4.0	64 P
U77665_at	8	0	20	20	18.040	1.25	1	0 Inf	63 P
X03635_at	11	2	20	20	18.055	1.87	0	0.5.5	63 P
X59798_at	7	2	20	20	18.035	1.34	0	0.3.5	63 P

Side 8

Connective tissue C									
X72841_at	13	1	20	20	18.065	3.41	1	0.13.0	63 P
X99325_at	8	1	20	20	18.040	1.08	0	0.8.0	63 P
U76369_at	8	1	20	20	18.040	1.26	1	0.8.0	62 P
X66397_at	11	0	20	20	17.055	2.33	0	0 Inf	62 P
X59405_at	9	2	20	20	18.045	2.15	0	0.4.5	61 P
Z68204_at	7	0	20	20	18.035	1.69	0	0 Inf	61 P
U79297_at	11	1	20	20	18.055	3.42	2	0.11.0	60 P
X16354_at	11	2	20	20	18.055	2.01	0	0.5.5	60 P
X78627_at	11	3	20	20	18.055	2.48	0	0.3.7	60 P
X55544_at	8	1	20	20	18.040	2.20	0	0.8.0	59 P
Y09443_at	7	0	20	20	18.035	1.56	0	0 Inf	59 P
U72508_at	7	1	20	20	18.035	1.24	0	0.7.0	58 P
U73682_at	8	2	20	20	18.040	1.16	0	0.4.0	58 P
Y90549_at	8	2	20	20	18.040	1.45	0	0.4.0	58 P
X53586_rna1_at	11	0	20	20	18.055	4.12	2	0 Inf	57 P
.17227_at	10	2	20	20	18.050	1.95	1	0.5.0	57 P
(87212_at	9	2	20	20	18.045	2.58	1	0.4.5	55 P
X13482_at	7	1	20	20	18.035	1.10	0	0.7.0	54 P
X63469_at	7	0	20	20	18.035	1.85	0	0 Inf	54 P
U6914_at	7	1	20	20	18.035	1.20	0	0.7.0	53 P
U71207_at	9	3	20	20	18.045	1.54	0	0.3.0	53 P
U85992_at	9	2	20	20	18.045	1.82	0	0.4.5	52 P
U79274_at	8	1	20	20	18.040	1.17	0	0.8.0	51 P
U79291_at	13	0	20	20	17.065	4.11	3	0 Inf	50 P
X63337_at	9	2	20	20	18.045	1.31	0	0.4.5	50 P
X64229_at	10	3	20	20	18.050	1.38	1	0.3.3	50 P
Z29331_at	11	2	20	20	18.055	3.99	3	0.5.5	50 P
Z35491_at	8	0	20	20	17.040	2.75	1	0 Inf	50 P
X16396_at	9	0	20	20	18.045	2.61	1	0 Inf	49 P
X60673_rna1_at	9	2	20	20	18.045	1.60	0	0.4.5	49 P
U66669_at	9	2	20	20	18.045	1.83	0	0.4.5	48 P
U72342_at	10	3	20	20	18.050	1.41	0	0.3.3	48 P
U83908_at	9	2	20	20	18.045	2.41	1	0.4.5	48 P
X92396_at	8	2	20	20	18.040	2.11	1	0.4.0	48 P
D86550_at	9	0	20	20	18.045	2.24	0	0 Inf	48 P
X76648_at	9	1	20	20	18.045	2.11	0	0.9.0	47 P
Z68129_cds1_at	7	1	20	20	18.035	1.03	0	0.7.0	47 P
D10040_at	8	2	20	20	18.040	1.31	0	0.4.0	47 P
U84573_at	9	1	20	20	18.045	3.00	2	0.9.0	46 P
X54941_at	7	1	20	20	18.035	1.30	0	0.7.0	46 P
X76057_at	8	2	20	20	18.040	1.11	0	0.4.0	46 P
X98248_rna1_at	8	2	20	20	18.040	1.99	1	0.4.0	46 P
Z24724_at	10	0	20	20	18.050	2.59	1	0 Inf	46 P
U68111_at	9	0	20	20	18.045	1.75	0	0 Inf	45 P
U94332_at	9	1	20	20	18.035	1.71	1	0.7.0	45 P
X98172_at	9	0	20	20	18.045	1.23	0	0 Inf	45 P
X62048_at	8	0	20	20	18.040	1.87	0	0 Inf	44 P
X87241_at	10	2	20	20	18.050	2.53	0	0.5.0	44 P
X94232_at	8	0	20	20	17.040	1.63	0	0 Inf	44 P
Z95624_at	7	0	20	20	18.035	1.20	0	0 Inf	44 P
X04011_at	10	2	20	20	18.050	1.47	0	0.5.0	43 P
X98260_at	8	2	20	20	18.040	1.02	0	0.4.0	43 P

Connective tissue C										
X59841_at	8	0	20	20	18 0.40	1.58	0	0	Inf	42 P
X65644_at	7	1	20	20	17 0.35	0.97	0	0	7.0	42 P
X74262_at	9	2	20	20	18 0.45	2.21	0	0	4.5	42 P
X96586_at	8	1	20	20	18 0.40	1.20	0	0	8.0	42 P
U67319_at	7	1	20	20	18 0.35	0.93	1	0	7.0	41 P
X07024_at	8	1	20	20	18 0.40	1.31	0	0	8.0	41 P
X52520_at	9	1	20	20	18 0.45	2.59	0	0	9.0	41 P
U90912_at	8	1	20	20	18 0.40	1.12	0	0	8.0	40 P
X06948_at	8	2	20	20	18 0.40	1.65	1	0	4.0	40 P
X61118_ma1_at	10	0	20	20	18 0.50	2.33	0	0	Inf	40 P
X81788_at	11	3	20	20	18 0.55	2.32	1	0	3.7	40 P
X53793_at	10	2	20	20	18 0.50	2.40	0	0	5.0	39 P
X54326_at	8	2	20	20	17 0.40	1.00	0	0	4.0	39 P
U88666_at	8	2	20	20	18 0.40	1.56	1	0	4.0	37 P
X73608_at	7	1	20	20	18 0.35	1.62	0	0	7.0	37 P
X84002_at	8	2	20	20	18 0.40	1.58	0	0	4.0	37 P
U69127_at	8	0	20	20	18 0.40	1.33	0	0	Inf	35 P
X17025_at	8	2	20	20	17 0.40	1.78	1	0	4.0	35 P
X57206_at	8	2	20	20	17 0.40	1.15	0	0	4.0	35 P
X76061_at	8	2	20	20	18 0.40	2.02	1	0	4.0	35 P
Z34897_at	8	1	20	20	18 0.40	1.45	0	0	8.0	35 P
Z37976_at	8	0	20	20	17 0.40	0.95	0	0	Inf	35 P
X57303_at	8	1	20	20	17 0.40	1.94	0	0	8.0	34 P
X83368_at	10	2	20	20	18 0.50	2.16	2	0	5.0	34 P
Y10313_at	8	2	20	20	18 0.40	1.25	0	0	4.0	34 P
X63417_at	7	1	20	20	18 0.35	1.43	0	0	7.0	33 P
X94910_at	8	1	20	20	18 0.40	1.26	0	0	8.0	32 P
U77718_at	9	2	20	20	18 0.45	1.27	0	0	4.5	31 P
U90916_at	10	2	20	20	18 0.50	3.47	3	0	5.0	31 P
X06562_at	9	2	20	20	18 0.45	2.44	1	0	4.5	31 P
U73960_at	9	2	20	20	17 0.45	1.15	0	0	4.5	30 P
X07820_at	8	1	20	20	17 0.40	1.86	1	0	8.0	30 P
X57025_at	7	0	20	20	17 0.35	1.51	0	0	Inf	30 P
D16481_at	8	1	20	20	18 0.40	1.23	0	0	8.0	30 P
U75679_at	8	1	20	20	18 0.40	1.51	0	0	8.0	29 P
X84195_at	7	2	20	20	18 0.35	2.65	2	0	3.5	29 P
Z46973_at	8	2	20	20	18 0.40	1.73	1	0	4.0	28 P
U79258_at	8	1	20	20	18 0.40	2.27	0	0	8.0	27 P
X58723_at	9	2	20	20	18 0.45	2.60	1	0	4.5	27 P
X92110_at	7	1	20	20	18 0.35	2.38	2	0	4.0	27 P
X99584_at	8	2	20	20	18 0.40	1.22	0	0	7.0	27 P
Z22535_at	8	2	20	20	17 0.40	1.20	0	0	4.0	27 P
U92015_at	8	2	20	20	18 0.40	1.13	0	0	4.0	26 P
X73882_at	8	2	20	20	17 0.40	1.56	0	0	4.0	26 P
U79245_at	8	2	20	20	17 0.40	2.65	2	0	4.0	25 P
X95592_at	10	2	20	20	17 0.50	1.79	0	0	5.0	25 P
U66561_at	7	2	20	20	18 0.35	1.32	0	0	3.5	23 P
U97018_at	9	3	20	20	18 0.45	1.38	1	0	3.0	22 P

Side 10

Gene Name	Connective tissue D											Abs Call
	Positiv	Nega	Pairs	Pairs	Pos	Fractl	Log Avg	PM	Ex	MM	Ex Pos/Neg	
M26311_s_at	17	0	19	19	17	0.89	5.63	2	0	Inf	15733 P	
X52426_s_at	19	0	20	20	18	0.95	4.98	0	0	Inf	13355 P	
M86757_s_at	20	0	20	20	18	1.00	6.88	2	0	Inf	10368 P	
L05187_at	20	0	20	20	18	1.00	5.41	1	0	Inf	6544 P	
hum_ailu_at	62	0	69	69	66	0.90	4.64	2	0	Inf	5696 P	
L04483_s_at	16	0	17	17	15	0.94	6.22	3	0	Inf	5632 P	
L42601_f_at	19	0	20	20	18	0.95	5.90	2	0	Inf	5155 P	
L42583_f_at	20	0	20	20	18	1.00	6.01	3	0	Inf	4939 P	
J04617_s_at	17	0	18	18	16	0.94	5.76	1	0	Inf	4935 P	
V01516_f_at	19	0	20	20	18	0.95	6.01	2	0	Inf	4779 P	
M63438_s_at	15	0	17	17	15	0.88	5.15	0	0	Inf	4579 P	
L05188_f_at	19	0	20	20	18	0.95	6.42	2	0	Inf	4465 P	
M19888_at	19	0	20	20	18	0.95	6.24	3	0	Inf	4441 P	
X53065_f_at	20	0	20	20	18	1.00	5.72	1	0	Inf	4285 P	
AFHX-HSAC07/X00351_M_at	20	0	20	20	18	1.00	5.33	0	0	Inf	4239 P	
X03689_s_at	19	0	19	19	17	1.00	7.09	1	0	Inf	4233 P	
X00351_f_at	19	0	20	20	18	0.95	7.19	2	0	Inf	4186 P	
AFHX-HUMGAPDH/M33197_3_at	19	0	20	20	18	0.95	5.92	1	0	Inf	4106 P	
X98482_f_at	2	0	3	3	3	0.67	2.08	0	0	Inf	3885 P	
M20030_f_at	20	0	20	20	18	1.00	6.64	4	0	Inf	3809 P	
M10277_s_at	19	0	20	20	18	0.95	5.59	3	0	Inf	3788 P	
J00105_s_at	20	0	20	20	18	1.00	8.04	5	0	Inf	3684 P	
X76223_s_at	18	1	20	20	18	0.90	4.92	1	1	18.0	3490 P	
M87789_s_at	18	1	20	20	18	0.90	4.97	1	0	18.0	3447 P	
IG2815-HT4023_s_at	19	0	20	20	18	0.95	5.41	1	0	Inf	3415 P	
'01677_f_at	19	0	20	20	18	0.95	5.09	1	0	Inf	3234 P	
14199_s_at	20	0	20	20	18	1.00	6.09	1	0	Inf	3222 P	
.FFX-CreX-3_at	19	0	20	20	18	0.95	6.81	2	0	Inf	3203 P	
.57348_s_at	15	0	19	19	17	0.79	4.47	1	0	Inf	3031 P	
AFHX-HSAC07/X00351_3_at	17	0	20	20	18	0.85	5.00	0	0	Inf	2862 P	
D49824_s_at	7	0	7	7	7	1.00	5.51	0	0	Inf	2821 P	
U43901_mat1_s_at	18	0	20	20	18	0.90	5.08	0	0	Inf	2812 P	
V00594_s_at	11	0	12	12	10	0.82	6.41	1	0	Inf	2805 P	
AFHX-HSAC07/X00351_5_at	18	0	20	20	18	0.90	5.13	0	0	Inf	2776 P	
D13413_mat1_s_at	17	0	18	18	16	0.94	5.38	0	0	Inf	2651 P	
U06155_s_at	12	1	14	14	12	0.88	5.03	0	1	12.0	2575 P	
AFHX-CreX-5_at	19	0	20	20	18	0.95	7.15	2	0	Inf	2535 P	
AFHX-HUMGAPDH/M33197_M_at	16	1	20	20	18	0.80	4.41	0	0	16.0	2457 P	
S82297_at	19	0	20	20	18	0.95	4.22	0	0	Inf	2360 P	
Z48148_s_at	20	0	20	20	18	1.00	5.62	1	0	Inf	2303 P	
HG2815-HT2931_at	5	0	6	6	6	0.83	4.17	0	0	Inf	2265 P	
M31520_mat1_s_at	15	0	16	16	14	0.94	6.19	2	0	Inf	2242 P	
M34516_at	5	0	5	5	5	1.00	4.11	0	0	Inf	2235 P	
M36072_at	16	0	20	20	18	0.80	4.10	0	0	Inf	2150 P	
AFHX-HUMGAPDH/M33197_5_at	18	0	20	20	18	0.90	5.78	3	0	Inf	2104 P	
M55409_s_at	18	0	20	20	18	0.90	5.84	3	0	Inf	1992 P	
L42611_f_at	14	0	20	20	18	0.70	3.86	0	0	Inf	1946 P	
X57351_s_at	12	0	12	12	10	1.00	5.81	0	0	Inf	1945 P	
HG2815-HT2931_s_at	13	0	14	14	12	0.93	6.37	0	0	Inf	1926 P	
X53296_s_at	19	0	20	20	18	0.95	5.49	3	0	Inf	1652 P	
M55998_s_at	18	0	20	20	18	0.90	6.05	2	0	Inf	1610 P	
X04470_s_at	18	0	19	19	17	0.95	5.06	1	0	Inf	1525 P	

Slide 1

Side 1

Connective tissue D

M24485_s_at	17	0	20	20	18.085	3.86	0	0	Inf	1522 P
S71043_rna1_s_at	16	0	20	20	18.080	3.68	1	0	Inf	1473 P
X51345_at	16	1	20	20	18.080	5.18	3	0	16.0	1446 P
HG4069-HT4339_s_at	18	0	20	20	18.090	5.56	2	0	Inf	1416 P
Y07909_at	16	1	20	20	18.080	6.79	5	1	16.0	1399 P
J04152_rna1_s_at	18	0	20	20	18.090	5.25	1	0	Inf	1311 P
Z48501_s_at	16	1	19	19	17.084	5.15	0	0	16.0	1263 P
S68896_at	17	1	20	20	18.085	5.37	0	0	17.0	1239 P
APFX-BioDn-3_at	14	2	20	20	18.070	3.13	0	0	7.0	1215 P
X56681_s_at	15	2	20	20	18.075	4.09	1	0	7.5	1204 P
U19557_s_at	20	0	20	20	18.100	5.25	0	0	Inf	1195 P
Z19534_s_at	16	1	18	18	16.089	5.89	1	1	16.0	1186 P
S54005_s_at	19	0	20	20	18.095	5.92	1	0	Inf	1175 P
U68105_s_at	15	0	20	20	18.075	6.45	6	0	Inf	1173 P
HG417-HT417_s_at	19	0	20	20	18.095	5.40	2	0	Inf	1172 P
HG3431-HT3616_s_at	18	0	20	20	18.090	5.80	1	0	Inf	1126 P
M94880_f_at	30	0	40	40	38.075	3.63	0	0	Inf	1095 P
S72493_s_at	17	1	20	20	18.085	2.94	0	0	17.0	1072 P
U20734_s_at	16	0	20	20	18.080	3.73	1	0	Inf	1069 P
M34516_f_at	11	0	11	11	9.100	5.23	1	0	Inf	1059 P
X69654_at	17	0	20	20	18.085	4.74	0	0	Inf	1050 P
M92843_s_at	19	0	20	20	18.095	5.73	0	0	Inf	1028 P
M13560_s_at	15	0	20	20	18.075	3.95	1	0	Inf	952 P
U57341_f_at	1	0	2	2	2.050	2.92	0	0	Inf	941 P
L3930_s_at	15	1	20	20	18.075	4.28	0	0	15.0	917 P
M26708_s_at	19	0	20	20	18.095	5.11	3	0	Inf	917 P
X04347_s_at	18	0	20	20	18.090	4.90	1	0	Inf	911 P
HG1980-HT2023_at	12	0	20	20	18.060	2.78	0	0	Inf	903 P
HG658-HT658_f_at	30	0	40	40	38.075	3.12	0	0	Inf	869 P
M11313_s_at	17	1	20	20	18.085	5.16	2	0	17.0	842 P
M83667_rna1_s_at	17	0	20	20	18.085	3.60	0	0	Inf	838 P
M19311_s_at	12	1	16	16	14.075	5.56	0	0	12.0	822 P
M14328_s_at	14	1	20	20	18.070	3.92	0	0	14.0	819 P
X57351_at	5	0	8	8	8.063	2.90	0	0	Inf	816 P
U06643_s_at	13	0	19	19	17.068	2.94	0	0	Inf	802 P
N21142_cds2_s_at	13	2	20	20	18.065	3.48	0	0	6.5	782 P
Z68228_s_at	15	1	20	20	18.075	3.28	0	0	15.0	779 P
HG2797-HT2906_s_at	15	0	19	19	17.079	3.82	0	0	Inf	759 P
D32129_f_at	17	0	20	20	18.085	4.75	0	0	Inf	753 P
X57809_s_at	9	1	12	12	10.075	2.45	0	0	9.0	737 P
V00594_at	3	1	8	8	8.038	2.72	0	0	3.0	715 P
HG1515-HT1515_f_at	16	0	20	20	18.080	5.27	2	0	Inf	662 P
HG3342-HT3519_s_at	16	0	19	19	17.084	4.66	0	0	Inf	660 P
S75256_s_at	17	1	20	20	18.085	4.50	3	0	17.0	656 P
M19045_f_at	14	1	20	20	18.070	4.81	4	0	14.0	644 P
M14483_rna1_s_at	13	0	20	20	18.065	3.12	0	0	Inf	641 P
Z30643_at	10	3	20	20	17.050	2.07	0	0	3.3	640 P
APFX-HSAC07X00351_3_st	15	0	20	20	18.075	3.82	0	0	Inf	629 P
X95240_s_at	13	2	20	20	18.065	3.73	4	1	6.5	626 P
M33600_f_at	16	0	20	20	18.080	3.73	0	0	Inf	619 P
X14008_rna1_f_at	13	2	20	20	18.065	4.15	3	0	6.5	602 P
M21302_at	14	1	20	20	18.070	4.11	2	0	14.0	600 P
X12671_rna1_at	20	0	20	20	18.100	4.55	0	0	Inf	594 P
L12711_s_at	11	1	19	19	17.058	3.30	1	0	11.0	589 P

Side 2

Connective tissue D																			
M12125_at	12	2	20	20	18.060	2.30	0	0.6.0	586 P										
M58026_at	10	1	20	20	18.050	2.18	0	0.10.0	573 P										
J03801_f_at	13	1	20	20	18.065	5.62	3	0.13.0	557 P										
D06974_at	15	2	20	20	18.075	2.56	0	0.7.5	519 P										
J03077_s_at	11	1	20	20	18.055	3.21	0	0.11.0	510 P										
M54915_s_at	13	0	20	20	18.065	3.37	0	0.1nf	500 P										
HG3238-HT3413_f_at	12	1	20	20	18.060	3.01	0	0.12.0	490 P										
D17408_s_at	14	0	20	20	18.070	3.72	0	0.1nf	483 P										
M26730_s_at	17	1	20	20	18.085	5.65	2	0.17.0	465 P										
X05130_s_at	12	2	19	19	17.063	2.54	0	1.6.0	464 P										
U14394_at	11	3	20	20	18.055	2.95	0	0.3.7	456 P										
X17093_at	12	1	20	20	18.060	2.73	1	0.12.0	435 P										
L33075_at	17	0	20	20	18.085	4.20	1	0.1nf	432 P										
HG3597-HT3800_f_at	15	1	20	20	17.075	4.30	2	0.15.0	422 P										
U43916_s_at	15	0	20	20	18.075	3.48	0	0.1nf	409 P										
L40397_at	12	1	20	20	18.060	2.35	0	0.12.0	407 P										
HG1428-HT1428_s_at	15	0	20	20	18.075	4.25	1	0.1nf	401 P										
X02761_s_at	14	0	20	20	18.070	3.69	0	0.1nf	397 P										
X12876_s_at	15	1	20	20	18.075	4.25	0	0.15.0	385 P										
X99133_at	9	2	20	20	18.045	1.79	0	0.4.5	384 P										
L11672_at	6	0	12	12	10.050	2.17	0	0.1nf	370 P										
HG2917-HT3061_f_at	12	0	20	20	18.060	2.29	0	0.1nf	370 P										
HG3576-HT3779_f_at	11	2	20	20	18.055	2.86	0	0.5.5	365 P										
U00947_s_at	19	0	20	20	18.095	5.49	3	0.1nf	361 P										
HG2915-HT3059_f_at	10	0	20	20	17.050	2.22	0	0.1nf	351 P										
Z49835_s_at	14	3	20	20	18.070	3.25	1	1.4.7	349 P										
HG2994-HT4850_s_at	8	2	20	20	18.040	1.29	0	0.4.0	346 P										
D43682_s_at	9	3	20	20	18.045	2.40	0	0.3.0	345 P										
AFEX-BioDn-5_at	14	2	20	20	18.070	2.39	0	0.7.0	344 P										
Z69043_s_at	16	1	20	20	18.080	3.44	0	0.16.0	342 P										
X95325_s_at	11	3	20	20	18.055	1.91	0	0.3.7	340 P										
HG1322-HT5143_s_at	14	1	20	20	18.070	4.19	0	0.14.0	339 P										
AFEX-BioC-5_at	16	1	20	20	18.080	3.17	0	0.16.0	337 P										
J02683_s_at	11	0	20	20	18.055	2.60	0	0.1nf	337 P										
M62403_s_at	11	0	20	20	18.055	2.19	0	0.1nf	337 P										
U48705_ma1_s_at	12	1	20	20	18.060	3.02	1	0.12.0	327 P										
M33493_s_at	12	1	20	20	18.060	3.10	1	0.12.0	313 P										
U92314_s_at	14	4	20	20	18.070	2.77	0	0.3.5	311 P										
X15729_s_at	16	2	20	20	18.080	4.10	1	0.8.0	305 P										
U05861_at	14	0	20	20	18.070	3.11	0	0.1nf	297 P										
X13461_s_at	9	2	20	20	18.045	1.33	0	0.4.5	296 P										
U70439_s_at	12	1	20	20	18.060	2.88	0	0.12.0	288 P										
M19287_s_at	9	1	19	19	17.047	2.77	2	0.9.0	284 P										
L09209_s_at	13	1	20	20	18.065	2.95	0	0.13.0	279 P										
V00599_s_at	13	2	20	20	18.065	2.04	0	0.6.5	278 P										
M16750_s_at	13	0	20	20	18.065	3.30	0	0.1nf	277 P										
M94046_at	7	0	20	20	18.035	1.76	0	0.1nf	270 P										
M65292_s_at	14	1	20	20	18.070	3.97	1	1.14.0	251 P										
M12963_s_at	9	0	19	19	17.047	3.02	0	0.1nf	248 P										
M13690_s_at	10	0	20	20	17.050	2.40	1	0.1nf	248 P										
U72649_at	14	1	20	20	18.070	2.43	0	0.14.0	244 P										
M28213_s_at	17	0	20	20	18.085	4.88	1	0.1nf	241 P										
HG3076-HT3238_s_at	14	0	20	20	17.070	3.31	1	0.1nf	239 P										
M30448_s_at	12	2	20	20	17.060	2.84	0	0.6.0	239 P										

Side 3

Connective tissue D

M34996_s_at	17	0	20	20	18 0.85	4.33	1	0 Inf	232 P
D17793_at	14	2	20	20	18 0.70	2.78	0	0 7.0	232 P
X52022_at	13	1	20	20	17 0.65	2.97	0	0 13.0	231 P
X06700_s_at	16	0	20	20	18 0.80	4.50	2	0 Inf	226 P
Y00787_s_at	12	0	20	20	18 0.60	2.65	0	0 Inf	224 P
U16799_s_at	14	2	20	20	18 0.70	3.85	2	0 7.0	223 P
X57152_ma1_s_at	14	2	20	20	18 0.70	2.80	0	0 7.0	223 P
D87017_cds3_at	8	0	20	20	18 0.40	1.43	0	0 Inf	222 P
U05681_s_at	12	2	20	20	18 0.60	1.94	0	0 6.0	221 P
M31551_s_at	13	1	20	20	18 0.65	3.30	1	1 13.0	219 P
X01703_at	14	2	20	20	18 0.70	2.83	1	0 7.0	218 P
J02621_s_at	11	0	20	20	18 0.55	2.51	1	0 Inf	217 P
M21539_at	13	0	20	20	18 0.65	2.60	1	0 Inf	215 P
L13740_at	7	0	20	20	18 0.35	1.21	0	0 Inf	212 P
X52979_ma1_s_at	14	1	20	20	18 0.70	2.51	0	0 14.0	209 P
M27436_s_at	13	0	20	20	18 0.65	3.39	0	0 Inf	206 P
J03805_s_at	16	0	18	18	16 0.89	5.53	3	0 Inf	206 P
X17567_s_at	10	2	20	20	17 0.50	2.32	0	0 5.0	206 P
M32304_s_at	9	2	20	20	18 0.45	1.56	0	0 4.5	202 P
M16342_at	13	1	20	20	17 0.85	2.88	0	0 13.0	201 P
M16652_at	3	0	4	4	4 0.75	2.05	0	0 Inf	201 P
X03068_f_at	18	3	40	40	38 0.45	1.61	0	0 6.0	194 P
M23323_s_at	11	2	20	20	18 0.55	1.80	0	0 5.5	192 P
K02405_f_at	10	2	20	20	18 0.50	1.27	0	0 5.0	192 P
HG4535-HT4940_s_at	8	1	20	20	18 0.40	1.14	0	0 8.0	191 P
M57466_s_at	9	2	20	20	18 0.45	2.18	0	0 4.5	188 P
M97935_s_at	13	2	20	20	18 0.65	2.71	0	0 6.5	186 P
X04526_at	14	1	20	20	18 0.70	2.32	0	0 14.0	185 P
M29874_s_at	13	2	20	20	18 0.65	2.72	0	0 6.5	185 P
U04636_ma1_s_at	11	1	20	20	18 0.55	1.99	0	1 11.0	184 P
Z15115_at	14	2	20	20	18 0.70	2.33	0	0 7.0	184 P
X72727_at	15	1	20	20	18 0.75	3.16	0	0 15.0	183 P
Y00264_at	13	1	20	20	17 0.65	3.56	0	0 13.0	183 P
AFFX-BioC-3_at	11	0	20	20	18 0.55	1.90	0	0 Inf	175 P
HG3044-HT3742_s_at	11	0	20	20	18 0.55	2.78	0	0 Inf	175 P
U61734_s_at	10	1	19	19	17 0.53	2.84	1	0 10.0	175 P
L49380_at	8	2	20	20	18 0.40	1.18	0	0 4.0	171 P
D10667_s_at	14	1	17	17	15 0.82	3.23	0	0 14.0	171 P
D78577_s_at	11	1	20	20	18 0.55	2.47	2	0 11.0	170 P
D83174_s_at	9	0	20	20	17 0.45	1.86	0	0 Inf	169 P
M37457_at	3	0	4	4	4 0.75	2.10	0	0 Inf	168 P
D78132_s_at	14	0	20	20	18 0.70	5.12	2	0 Inf	167 P
X71345_f_at	9	2	20	20	18 0.45	1.93	1	0 4.5	166 P
U08021_at	10	0	20	20	17 0.50	2.15	0	0 Inf	165 P
U01691_s_at	9	0	20	20	18 0.45	3.00	3	0 Inf	164 P
:AB3216_s_at	15	1	20	20	18 0.75	3.89	0	0 15.0	163 P
IG688-HT688_f_at	10	1	20	20	18 0.50	1.61	0	0 10.0	163 P
M30703_s_at	10	1	20	20	18 0.50	2.67	1	1 10.0	160 P
U79528_s_at	7	0	20	20	18 0.35	1.46	0	0 Inf	160 P
M93651_at	10	0	20	20	18 0.50	2.68	1	0 Inf	159 P
HG4541-HT4946_s_at	10	0	18	18	16 0.56	2.35	0	0 Inf	159 P
X73358_s_at	9	1	19	19	17 0.47	1.75	1	0 9.0	159 P
Z35402_ma1_s_at	10	1	20	20	18 0.50	2.27	0	0 10.0	159 P
U12767_at	13	0	20	20	17 0.65	2.37	0	0 Inf	154 P

Side 4

										Connective tissue D			
X56841_at	10	3	20	20	18	0.50	1.42	0	0.33	154 P			
Z74616_s_at	7	0	20	20	18	0.35	1.67	0	0 Inf	153 P			
AFFX-HUMRCE/M10098_s_at	12	2	20	20	18	0.60	2.04	0	0.60	152 P			
M69181_at	8	1	20	20	18	0.40	1.76	0	0.80	151 P			
HG4312-HT4582_s_at	13	1	20	20	18	0.65	3.18	2	0.130	149 P			
HG4264-HT4534_s_at	8	1	18	18	16	0.44	2.33	0	0.60	149 P			
X85116_ma1_s_at	12	2	20	20	17	0.60	1.88	0	0.60	149 P			
X05855_s_at	14	0	15	15	12	0.93	5.08	1	0 Inf	148 P			
M13452_s_at	8	2	20	20	17	0.40	1.31	0	0.40	147 P			
J04029_s_at	10	2	18	18	16	0.56	1.73	0	0.50	145 P			
U09587_at	13	1	20	20	18	0.65	2.76	0	0.130	144 P			
U54644_s_at	7	1	20	20	17	0.35	1.37	0	0.70	143 P			
X04602_s_at	17	0	20	20	18	0.85	3.33	0	0 Inf	141 P			
U09510_s_at	12	2	20	20	18	0.60	2.85	2	0.60	138 P			
X14684_s_at	10	0	20	20	18	0.50	1.97	0	0 Inf	136 P			
S82447_s_at	8	2	20	20	17	0.40	1.23	0	0.40	134 P			
Z84497_s_at	11	1	20	20	18	0.55	1.92	1	0.110	131 P			
S40719_s_at	9	3	20	20	18	0.45	1.49	0	0.30	130 P			
S69272_s_at	9	2	20	20	18	0.45	1.94	0	0.45	129 P			
X83416_s_at	9	1	20	20	18	0.45	2.63	1	0.90	128 P			
M96954_s_at	8	1	19	19	17	0.42	2.02	0	0.80	127 P			
Z25521_s_at	9	0	20	20	18	0.45	1.60	0	0 Inf	127 P			
K03431_cds1_at	7	1	20	20	18	0.35	1.26	0	0.70	127 P			
M24069_at	12	2	20	20	18	0.60	2.55	0	0.60	127 P			
L15189_s_at	9	1	20	20	18	0.45	3.10	1	0.90	126 P			
M13929_s_at	10	1	20	20	17	0.50	2.17	0	0.100	125 P			
Z47055_s_at	13	1	20	20	17	0.65	2.45	0	0.130	124 P			
X80763_s_at	8	0	20	20	18	0.40	1.74	0	0 Inf	124 P			
M36430_s_at	9	1	20	20	17	0.45	1.82	0	0.90	118 P			
J03242_s_at	9	1	20	20	18	0.45	1.42	0	0.90	117 P			
X14766_at	11	2	20	20	18	0.55	1.49	0	0.55	115 P			
M18391_s_at	11	0	20	20	18	0.55	2.29	0	0 Inf	114 P			
U26173_s_at	13	0	20	20	18	0.65	2.98	2	0 Inf	114 P			
AC002045_xp12_s_at	12	2	20	20	17	0.60	1.73	0	0.60	113 P			
HG273-HT273_s_at	6	2	15	15	13	0.40	1.42	0	0.30	113 P			
HG2743-HT2846_s_at	10	1	20	20	18	0.50	1.52	0	0.100	113 P			
X03350_at	14	1	20	20	18	0.70	3.75	2	0.140	112 P			
X65985_s_at	12	1	18	18	16	0.67	2.86	0	0.120	112 P			
U27460_at	10	2	20	20	18	0.50	1.91	0	0.50	111 P			
HG2638-HT2735_s_at	10	1	20	20	18	0.50	2.56	1	0.100	110 P			
U32986_s_at	10	0	20	20	18	0.50	1.88	0	0 Inf	110 P			
L06797_s_at	8	2	20	20	17	0.40	2.24	0	0.40	109 P			
U41767_s_at	8	2	20	20	17	0.40	1.12	0	0.40	108 P			
X12953_at	9	1	20	20	18	0.45	1.30	0	0.90	108 P			
M97796_s_at	7	2	19	19	16	0.37	1.59	0	0.35	107 P			
U50196_at	12	3	20	20	18	0.60	1.98	0	0.40	106 P			
X05610_at	8	2	20	20	17	0.40	1.75	0	0.40	104 P			
L24774_s_at	10	2	20	20	18	0.50	1.83	0	0.50	102 P			
M13994_s_at	7	2	20	20	18	0.35	1.52	1	0.35	102 P			
U41654_at	12	2	20	20	18	0.60	2.21	0	0.60	101 P			
U46006_s_at	13	0	20	20	18	0.65	3.02	0	0 Inf	101 P			
AFFX-HUMISGF3A/M97935_3_at	13	2	20	20	18	0.65	2.69	1	0.65	99 P			
Y00081_s_at	10	1	20	20	18	0.50	1.43	0	0.100	99 P			
X58528_s_at	12	0	17	17	15	0.71	3.67	1	0 Inf	99 P			

Side 5

Connective tissue D

U36341_rna1_at	7	1	20	20	18.0.35	1.08	0	0.7.0	98 P
U22431_s_at	12	1	20	20	17.0.50	2.37	0	0.12.0	98 P
M60974_s_at	7	0	20	20	17.0.35	1.28	0	0 Inf	96 P
AFFX-BioB-5_at	8	2	20	20	18.0.40	1.15	0	0.4.0	95 P
D42040_s_at	8	2	20	20	18.0.40	1.51	0	0.4.0	94 P
U67122_s_at	11	1	20	20	18.0.55	2.43	0	0.11.0	94 P
U28014_at	13	0	20	20	18.0.65	3.23	1	0 Inf	94 P
D79206_s_at	8	0	20	20	17.0.40	1.32	0	0 Inf	93 P
S78771_s_at	10	3	20	20	18.0.50	1.91	0	0.3.3	92 P
M58525_s_at	7	1	20	20	18.0.35	1.20	0	0.7.0	92 P
M60483_rna1_s_at	9	1	18	18	16.0.50	2.65	1	0.9.0	92 P
HG2868-HT3012_s_at	9	2	20	20	18.0.45	2.18	1	0.4.5	91 P
U41518_at	10	0	20	20	18.0.50	1.67	0	0 Inf	90 P
Z74615_at	8	1	20	20	17.0.40	1.78	1	0.8.0	90 P
Z35085_s_at	14	1	19	19	17.0.74	4.26	1	0.14.0	90 P
L76517_at	7	0	20	20	17.0.35	1.61	0	0 Inf	89 P
M16276_at	9	1	20	20	18.0.45	1.78	0	0.9.0	89 P
D45917_s_at	10	2	20	20	18.0.50	2.13	2	1.5.0	88 P
U19495_s_at	15	1	20	20	17.0.75	4.92	4	0.15.0	88 P
X07438_s_at	14	2	19	19	17.0.74	3.49	1	0.7.0	88 P
U41740_at	12	2	20	20	18.0.60	2.58	1	0.6.0	86 P
X03363_s_at	9	1	20	20	18.0.45	1.54	0	0.9.0	86 P
M28882_s_at	8	1	17	17	15.0.47	2.28	1	0.8.0	85 P
HG4322-HT4592_at	11	2	20	20	18.0.55	2.59	1	0.5.5	85 P
L38490_s_at	7	1	20	20	18.0.35	1.30	0	0.7.0	84 P
X62083_s_at	7	1	20	20	18.0.35	1.31	1	0.7.0	84 P
U43944_at	12	1	20	20	18.0.60	2.44	0	0.12.0	84 P
HG3484-HT3678_s_at	9	0	20	20	18.0.45	2.10	0	0 Inf	83 P
X62534_s_at	10	0	20	20	18.0.50	2.63	0	0 Inf	83 P
Y00097_s_at	8	2	20	20	18.0.40	1.73	0	0.4.0	82 P
S72024_s_at	8	1	20	20	18.0.40	1.57	0	0.8.0	82 P
U72509_s_at	10	1	19	19	16.0.53	2.19	0	0.10.0	82 P
X65488_at	12	0	20	20	18.0.60	2.37	1	0 Inf	81 P
L32831_s_at	11	2	20	20	18.0.55	1.13	0	0.5.5	81 P
U45448_s_at	10	3	20	20	18.0.50	1.88	0	0.3.3	81 P
M20867_s_at	9	1	17	17	14.0.53	1.70	0	0.9.0	79 P
U30827_s_at	13	1	20	20	17.0.65	3.56	2	0.13.0	79 P
M31932_at	8	2	20	20	18.0.40	1.12	0	0.4.0	79 P
Z69030_s_at	6	1	18	18	16.0.33	1.85	1	0.6.0	78 P
HG3636-HT3849_s_at	9	1	20	20	18.0.45	1.88	1	0.9.0	77 P
U35005_s_at	10	2	20	20	18.0.50	2.08	0	0.5.0	76 P
HG2981-HT3127_s_at	11	1	19	19	17.0.58	1.75	0	0.11.0	75 P
D14826_s_at	7	1	20	20	18.0.35	1.19	0	0.7.0	74 P
M63836_s_at	9	0	20	20	18.0.45	2.69	1	0 Inf	73 P
Y00451_s_at	8	0	20	20	18.0.40	1.34	0	0 Inf	73 P
U19247_rna1_s_at	10	2	20	20	18.0.50	2.37	0	0.5.0	72 P
J04093_s_at	10	0	20	20	18.0.50	1.92	0	0 Inf	72 P
X60003_s_at	9	2	20	20	18.0.45	1.58	0	0.4.5	72 P
M61832_s_at	8	2	20	20	18.0.40	1.11	0	0.4.0	71 P
U01337_at	7	1	20	20	18.0.35	1.14	0	0.7.0	68 P
Z26491_s_at	10	0	20	20	18.0.50	2.52	1	0 Inf	66 P
U33936_s_at	12	2	20	20	18.0.60	1.80	0	0.6.0	66 P
S68805_at	10	0	20	20	18.0.50	2.36	0	0 Inf	65 P
D83260_s_at	8	1	19	19	16.0.42	1.83	0	0.8.0	65 P

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Connective tissue D

U20938_at	11	0	20	20	18.055	1.93	0	0	Inf	54 P
HG1400-HT1400_s_at	11	2	20	20	18.055	2.42	0	0	5.5	63 P
L14778_s_at	12	0	19	19	17.063	4.34	4	0	Inf	61 P
U96131_at	8	1	20	20	18.040	1.46	1	0	8.0	60 P
M17183_s_at	8	1	20	20	18.040	1.95	1	0	8.0	60 P
L00634_s_at	10	1	19	19	17.053	3.14	2	0	10.0	60 P
U58046_s_at	12	1	20	20	18.060	3.04	1	0	12.0	59 P
X53002_s_at	8	2	20	20	18.040	1.14	0	0	4.0	59 P
X69920_s_at	8	1	20	20	18.040	2.17	0	0	8.0	59 P
U33052_s_at	8	0	20	20	17.040	3.36	1	0	Inf	59 P
U44103_at	10	2	20	20	17.050	2.57	0	0	5.0	59 P
D28473_s_at	10	2	20	20	18.050	2.16	0	0	5.0	58 P
U60061_at	9	2	20	20	18.045	2.22	2	0	4.5	57 P
M21119_s_at	7	1	20	20	18.035	0.94	0	0	7.0	57 P
U33838_at	2	0	4	4	4.050	2.70	0	0	Inf	57 P
M24736_s_at	7	1	20	20	18.035	1.12	0	0	7.0	57 P
HG4518-HT4921_r_at	1	0	2	2	2.050	1.26	0	0	Inf	56 P
HG4557-HT4962_r_at	3	0	5	5	5.060	1.98	0	0	Inf	56 P
S77410_at	7	1	20	20	18.035	1.04	0	0	7.0	55 P
HG2090-HT2152_s_at	7	2	19	19	17.037	1.63	1	1	3.5	55 P
X81625_at	9	1	20	20	18.045	2.01	1	0	9.0	54 P
U41766_s_at	8	2	20	20	18.040	1.27	1	0	4.0	53 P
U61276_s_at	9	2	20	20	18.045	2.01	0	0	4.5	53 P
Y07566_at	9	1	20	20	18.045	1.50	0	0	9.0	53 P
U33632_at	12	1	20	20	17.060	3.09	1	0	12.0	52 P
M10321_s_at	7	1	20	20	18.035	1.12	0	0	7.0	52 P
J03934_s_at	9	2	20	20	18.045	1.91	0	0	4.5	51 P
X14253_s_at	8	2	20	20	18.040	1.76	0	0	4.0	51 P
L15326_s_at	10	1	20	20	18.050	1.91	0	0	10.0	50 P
M75715_s_at	9	1	19	19	17.047	2.08	0	0	9.0	50 P
L08010_at	8	2	20	20	17.040	1.72	0	0	4.0	50 P
M31516_s_at	7	0	20	20	18.035	1.37	0	0	Inf	49 P
M96843_at	8	2	20	20	18.040	0.99	0	0	4.0	48 P
X75918_at	11	2	20	20	18.055	1.77	0	0	5.5	48 P
D28235_s_at	10	1	20	20	18.050	1.49	0	0	10.0	47 P
M19508_xp03_s_at	8	1	20	20	18.040	0.95	0	0	8.0	47 P
S79219_s_at	9	3	20	20	18.045	1.79	0	0	3.0	46 P
L35249_s_at	7	1	18	18	16.039	1.78	0	0	7.0	45 P
U84388_at	10	0	20	20	18.050	3.54	1	0	Inf	45 P
AFFX-HUMTFRR/M11507_5_at	9	2	20	20	18.045	1.08	0	0	4.5	44 P
HG2743-HT3926_s_at	12	1	20	20	18.060	1.82	0	0	12.0	44 P
HG945-HT945_s_at	9	2	20	20	18.045	1.08	0	0	4.5	44 P
U69140_s_at	7	1	18	18	16.039	2.73	1	0	7.0	44 P
AFFX-HUMRGE/M10098_M_at	7	1	20	20	18.035	1.75	0	0	7.0	42 P
U73936_at	8	2	20	20	18.040	1.14	0	0	4.0	42 P
AB000381_s_at	9	2	20	20	18.045	2.66	2	0	4.5	42 P
M29610_at	9	2	14	14	12.064	4.77	4	0	4.5	42 P
U04285_s_at	9	3	20	20	17.045	1.90	1	0	3.0	42 P
HG3075-HT3236_s_at	7	2	20	20	17.035	1.57	2	0	3.5	40 P
X54993_s_at	8	2	20	20	18.040	1.29	1	0	4.0	40 P
U61397_s_at	7	1	20	20	18.035	1.56	0	0	7.0	40 P
X99886_s_at	7	0	19	19	17.037	1.26	0	0	Inf	40 P
S82597_ma1_s_at	9	1	20	20	18.045	1.21	0	0	9.0	39 P
X05182_s_at	8	1	20	20	18.040	1.48	1	0	8.0	38 P

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[illegible]

Normal urothelium A

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Gene Name	Pos	Neg	Pair	Pos	Fr	Log	Av	PM	IMM	Pos/N	Avg	Diff	Abs	Call
hum_ali_at	69	0	69	67	1.00	7.38		12	0	Inf			27021 P	
.06499_at	20	0	20	20	18.100	7.57		3	0	Inf			12530 P	
A33214-HT3391_at	19	0	20	20	18.095	7.36		4	0	Inf			8561 P	
AFFX-CreX_3_at	19	0	20	20	18.095	8.08		2	0	Inf			5961 P	
HG3364-HT3541_at	20	0	20	20	18.100	7.76		7	0	Inf			5937 P	
M13934_cds2_at	19	0	20	20	18.095	6.91		1	0	Inf			5721 P	
HG1800-HT1823_at	19	0	20	20	18.095	7.68		4	0	Inf			5403 P	
M17886_at	18	0	20	20	18.090	5.81		1	0	Inf			5130 P	
M11147_at	18	0	20	20	18.090	6.85		3	0	Inf			4610 P	
D45370_at	19	0	20	20	18.095	5.40		2	0	Inf			4549 P	
HG2873-HT3017_at	18	0	20	20	18.090	7.15		3	0	Inf			4508 P	
AFFX-CreX-5_at	20	0	20	20	18.100	7.29		4	0	Inf			4443 P	
M18000_at	20	0	20	20	18.100	8.01		6	0	Inf			4368 P	
D23660_at	19	0	20	20	18.095	7.99		6	0	Inf			4257 P	
L06505_at	17	0	20	20	18.085	5.35		2	0	Inf			4194 P	
HG3546-HT3751_at	19	0	20	20	18.095	6.73		3	0	Inf			4127 P	
M17885_at	19	1	20	20	18.095	6.97		2	0	19.0			3866 P	
AFFX-HUMGAPDH/M331	19	0	20	20	18.095	5.62		1	0	Inf			3862 P	
L38941_at	20	0	20	20	18.100	8.04		5	0	Inf			3734 P	
AFFX-BioDn-3_at	17	0	20	20	18.085	4.18		0	0	Inf			3458 P	
HG2788-HT2896_at	18	0	20	20	18.090	6.08		1	0	Inf			3126 P	
M17733_at	18	0	20	20	18.090	6.92		3	0	Inf			2982 P	
D78205_at	20	0	20	20	18.100	8.85		8	0	Inf			2854 P	
L19527_at	18	0	20	20	18.090	5.82		2	0	Inf			2522 P	
D78361_at	18	0	20	20	18.090	5.73		0	0	Inf			2513 P	
AFFX-HSAC07/X00351_1	18	0	20	20	18.090	5.45		1	0	Inf			2382 P	
D14530_at	20	0	20	20	18.100	7.43		3	0	Inf			2301 P	
HG821-HT821_at	18	0	20	20	18.090	5.85		2	0	Inf			1918 P	
HG613-HT613_at	19	0	20	20	17.095	6.85		5	0	Inf			1834 P	
HG4319-HT4589_at	19	0	20	20	18.095	6.05		1	0	Inf			1746 P	
HG384-HT384_at	12	0	20	20	17.060	4.27		2	0	Inf			1634 P	
L20941_at	15	0	20	20	17.075	3.62		1	0	Inf			1530 P	
HG4542-HT4947_at	17	0	20	20	18.085	5.16		1	0	Inf			1500 P	
HG311-HT311_at	18	1	20	20	17.090	6.14		3	0	18.0			1484 P	
AC002115_cds1_at	16	0	20	20	18.080	4.81		0	0	Inf			1456 P	
AC002115_cds4_at	16	0	20	20	18.080	3.23		0	0	Inf			1382 P	
M11353_at	16	1	20	20	17.080	6.14		3	0	16.0			1359 P	
HG33-HT33_at	18	0	20	20	17.090	5.44		1	0	Inf			1327 P	
D00017_at	16	0	20	20	18.080	4.46		0	0	Inf			1293 P	
L11566_at	14	0	20	20	18.070	3.86		0	0	Inf			1195 P	
D87735_at	17	0	20	20	17.085	4.52		1	0	Inf			1192 P	
AFFX-HSAC07/X00351_1	11	2	20	20	18.090	3.90		0	0	18.0			1181 P	
J04164_at	11	2	20	20	18.055	2.83		2	0	5.5			1166 P	
J03592_at	17	1	20	20	18.085	4.77		1	0	17.0			1140 P	
HG662-HT662_at	9	2	20	20	18.045	2.67		0	0	4.5			955 P	
L19886_ma1_at	14	2	20	20	18.070	3.02		0	0	7.0			919 P	
L26247_at	15	0	20	20	18.075	4.10		0	0	Inf			886 P	

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HG2279-HT2375_at	16	0	20	20	20	18.080	2.80	1	0	Inf	872 P
D89667_at	17	1	20	20	20	18.085	5.25	0	0	17.0	842 P
D38583_at	18	1	20	20	20	18.090	4.55	1	0	18.0	841 P
AFFX-HSAC07/X00351_ε	16	1	20	20	20	18.080	4.03	1	0	16.0	829 P
D00654_at	15	0	20	20	20	18.075	3.92	1	0	Inf	751 P
D30655_at	14	0	20	20	20	18.070	4.02	1	0	Inf	728 P
AFFX-HUMGAPDH/M331	14	2	20	20	20	18.070	2.59	0	0	7.0	725 P
M19283_at	15	2	20	20	20	18.075	3.61	1	0	7.5	725 P
M19961_at	14	3	20	20	20	18.070	2.67	2	0	4.7	705 P
J03827_at	13	0	20	20	20	18.065	3.12	0	0	Inf	694 P
AFFX-BioC-5_at	11	0	20	20	20	18.055	2.70	0	0	Inf	692 P
D63874_at	12	1	20	20	20	18.060	3.74	3	0	12.0	675 P
J03191_at	17	0	20	20	20	18.085	4.97	0	0	Inf	668 P
J04823_rna1_at	15	1	20	20	20	18.075	3.33	0	0	15.0	638 P
K03460_at	9	0	20	20	20	18.045	2.61	0	0	Inf	632 P
D29012_at	12	3	20	20	20	18.060	2.49	0	0	4.0	628 P
D14710_at	15	0	20	20	20	18.075	3.42	2	0	Inf	613 P
D45248_at	14	1	20	20	20	18.070	3.48	0	0	14.0	603 P
M15661_at	17	1	20	20	20	18.085	3.85	0	0	17.0	600 P
HG1153-HT1153_at	13	1	20	20	20	18.065	3.12	0	0	13.0	583 P
D28124_at	14	0	20	20	20	18.070	2.65	0	0	Inf	580 P
J04988_at	14	0	20	20	20	18.070	3.69	1	0	Inf	578 P
AFFX-BioC-5_at	15	1	20	20	20	18.075	2.69	0	0	15.0	557 P
K02765_at	15	0	20	20	20	18.075	2.97	1	0	Inf	540 P
J02854_at	11	0	20	20	20	18.055	2.21	0	0	Inf	522 P
D13118_at	9	1	20	20	20	18.045	2.11	1	0	9.0	501 P
D23662_at	14	1	20	20	20	18.070	2.87	0	0	14.0	496 P
D29963_at	13	1	20	20	20	18.065	2.14	0	0	13.0	482 P
D00761_at	15	0	20	20	20	18.075	2.92	0	0	Inf	462 P
M12529_at	9	1	20	20	20	18.045	2.16	0	0	9.0	448 P
L12168_at	10	0	20	20	20	18.050	2.72	0	0	Inf	445 P
M11119_at	9	0	20	20	20	18.045	1.94	0	0	Inf	437 P
D31883_at	10	2	20	20	20	18.050	1.48	0	0	5.0	431 P
D31846_at	10	0	20	20	20	18.050	1.89	0	0	Inf	424 P
M20471_at	15	0	20	20	20	18.075	2.97	0	0	Inf	421 P
D38548_at	9	1	20	20	20	18.045	2.00	0	0	9.0	417 P
J04456_at	16	0	20	20	20	18.080	3.92	1	0	Inf	413 P
AFFX-HUMGAPDH/M331	12	3	20	20	20	18.060	2.01	0	0	4.0	406 P
HG987-HT987_at	15	3	20	20	20	18.075	3.80	2	0	5.0	404 P
D23673_at	11	0	20	20	20	18.055	2.25	0	0	Inf	401 P
AFFX-BioC-3_at	13	0	20	20	20	18.065	2.46	0	0	Inf	391 P
D14520_at	10	1	20	20	20	18.050	2.04	0	0	10.0	387 P
D28598_at	10	0	20	20	20	18.050	2.32	0	0	Inf	384 P
D16562_at	15	1	20	20	20	17.075	4.14	1	1	15.0	364 P
L15702_at	12	2	20	20	20	18.060	1.91	0	0	6.0	363 P
L33842_rna1_at	14	1	20	20	20	18.070	3.38	0	0	14.0	358 P
L38486_at	12	2	20	20	20	18.060	2.38	0	0	6.0	354 P
D13748_at	12	1	20	20	20	18.060	2.07	0	0	12.0	353 P
HG2855-HT2995_at	13	1	20	20	20	18.065	2.94	0	0	13.0	347 P
AFFX-HSAC07/X00351_ε	12	0	20	20	20	17.060	3.21	0	0	Inf	346 P
D85815_at	11	3	20	20	20	18.055	1.88	0	0	3.7	344 P

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Normal urothelium A

D25274_at	11	2	20	20	17.055	2.35	0	0.55	342 P
L21954_at	13	4	20	20	18.065	2.18	0	0.33	341 P
D63475_at	14	1	20	20	18.070	3.17	0	0.140	338 P
M19483_at	13	1	20	20	18.065	2.28	0	0.130	338 P
D85429_at	11	1	20	20	18.055	2.03	0	0.110	333 P
D63878_at	12	3	20	20	18.060	1.71	0	0.40	331 P
D50310_at	18	0	20	20	18.090	3.57	0	0.1nf	325 P
D26068_at	10	2	20	20	18.050	2.74	1	0.50	323 P
D13640_at	7	2	20	20	18.035	1.74	0	0.35	313 P
M16279_at	7	2	20	20	18.035	1.59	0	0.35	311 P
D11428_at	7	1	20	20	18.035	1.23	0	1.70	309 P
HG2566-HT4867_at	10	2	20	20	18.050	1.69	0	0.50	307 P
AF015910_at	8	0	20	20	18.040	1.59	0	0.1nf	306 P
L19605_at	12	1	20	20	17.060	2.18	0	0.120	305 P
D90209_at	14	1	20	20	18.070	3.13	0	0.140	299 P
D38047_at	11	0	20	20	18.055	2.10	0	0.1nf	298 P
M13955_at	9	2	20	20	18.045	2.20	0	0.45	297 P
D49400_at	11	3	20	20	18.055	1.67	0	0.37	295 P
L09604_at	9	1	20	20	18.045	1.94	0	0.90	293 P
AB000584_at	10	2	20	20	18.050	2.00	0	0.50	292 P
L76200_at	10	2	20	20	18.050	1.42	0	0.50	286 P
J04611_at	10	3	20	20	18.050	2.12	1	0.33	285 P
M14200_ma1_at	10	1	20	20	17.050	1.88	0	0.100	279 P
HG1614-HT1614_at	9	1	20	20	17.045	1.30	0	0.90	274 P
J04794_at	9	3	20	20	18.045	1.45	0	0.30	271 P
AF006004_at	11	2	20	20	17.055	2.31	0	0.55	269 P
D26599_at	13	2	20	20	18.065	2.75	0	0.65	269 P
D50663_at	13	2	20	20	18.065	2.43	0	1.65	269 P
D16217_at	11	0	20	20	17.055	2.34	0	0.1nf	267 P
J02874_at	12	2	20	20	18.060	3.23	2	0.60	267 P
D25216_at	10	1	20	20	17.050	2.07	1	0.100	265 P
D55696_at	9	2	20	20	17.045	2.27	1	0.45	260 P
D82348_at	11	2	20	20	18.055	2.22	0	0.55	258 P
D14694_at	13	0	20	20	18.065	2.55	0	0.1nf	255 P
J03600_at	11	2	20	20	18.055	2.56	0	0.55	255 P
J03459_at	10	1	20	20	18.050	1.97	1	0.100	254 P
L25080_at	10	2	20	20	18.050	2.35	1	0.50	250 P
L07633_at	12	0	20	20	18.060	3.26	0	0.1nf	249 P
D10522_at	13	1	20	20	18.065	3.23	1	0.130	246 P
L02426_at	11	0	20	20	18.055	2.00	0	0.1nf	242 P
L10284_at	13	1	20	20	18.065	2.61	0	0.130	239 P
M14056_at	11	0	20	20	18.055	2.20	0	0.1nf	235 P
L13977_at	12	1	20	20	18.060	2.18	0	0.120	232 P
J03069_ma1_at	9	2	20	20	18.045	1.95	0	0.45	230 P
M13755_at	7	1	20	20	18.035	1.09	0	0.70	230 P
HG1862-HT1897_at	10	2	20	20	18.050	2.50	0	0.50	228 P
L13852_at	7	0	20	20	18.035	1.48	0	0.1nf	225 P
M12886_at	11	2	20	20	17.055	1.57	0	0.55	222 P
D88422_at	11	2	20	20	18.055	2.38	0	0.55	221 P
L25081_at	7	0	20	20	18.035	1.12	0	0.1nf	219 P

Side 3

Normal urothelium A

D26600_at	15	1	20	20	17	0.75	2.67	0	0	15.0	218 P
L11285_at	9	2	20	20	18	0.45	1.62	0	0	4.5	218 P
L40904_at	7	0	20	20	18	0.35	1.76	0	0	Inf	218 P
HG3494-HT3688_at	8	1	20	20	17	0.40	1.31	0	0	8.0	217 P
D21089_at	10	1	20	20	17	0.50	2.25	1	0	10.0	215 P
D86965_at	8	1	20	20	18	0.40	1.45	0	0	8.0	215 P
L24203_at	11	0	20	20	18	0.55	1.98	0	0	Inf	213 P
M14676_at	9	3	20	20	18	0.45	1.96	0	0	3.0	213 P
K03430_at	9	0	20	20	18	0.45	1.79	0	0	Inf	212 P
L40027_at	10	2	20	20	18	0.50	1.97	1	0	5.0	212 P
D00763_at	11	1	20	20	18	0.55	1.92	0	0	11.0	211 P
L19437_at	10	0	20	20	18	0.50	2.35	1	0	Inf	210 P
HG1078-HT1078_at	14	2	20	20	18	0.70	2.55	0	0	7.0	207 P
L32977_at	14	1	20	20	17	0.70	3.51	1	0	14.0	204 P
D87953_at	11	0	20	20	18	0.55	2.89	0	0	Inf	203 P
AB001325_at	8	2	20	20	18	0.40	0.92	0	0	4.0	200 P
D78134_at	10	2	20	20	17	0.50	2.15	0	0	5.0	200 P
D43642_at	12	1	20	20	18	0.60	2.32	0	0	12.0	197 P
D14662_at	10	1	20	20	18	0.50	2.68	1	0	10.0	191 P
D31884_at	11	2	20	20	18	0.55	1.99	0	0	5.5	191 P
D83542_at	10	3	20	20	18	0.50	1.53	0	0	3.3	191 P
HG3514-HT3708_at	10	1	20	20	18	0.50	2.20	0	0	10.0	191 P
D63486_at	8	0	20	20	17	0.40	1.11	0	0	Inf	190 P
D31890_at	13	1	20	20	17	0.65	3.06	1	0	13.0	186 P
D49738_at	11	3	20	20	18	0.55	1.83	0	0	3.7	186 P
D50063_at	9	2	20	20	18	0.45	1.60	1	1	4.5	183 P
D63160_at	7	0	20	20	18	0.35	1.23	0	0	Inf	179 P
D38305_at	10	0	20	20	17	0.50	2.17	1	0	Inf	176 P
D38048_at	11	1	20	20	18	0.55	2.31	0	0	11.0	173 P
D49387_at	8	1	20	20	18	0.45	2.24	1	0	9.0	173 P
D31765_at	8	1	20	20	18	0.40	1.61	0	0	8.0	172 P
M15182_at	8	2	20	20	18	0.40	1.10	0	0	4.0	171 P
HG4297-HT4567_at	14	2	20	20	18	0.70	2.88	1	0	7.0	170 P
L12350_at	11	0	20	20	18	0.55	2.36	0	0	Inf	170 P
D32050_at	8	2	20	20	18	0.40	1.22	0	0	4.0	166 P
L08246_at	10	2	20	20	18	0.50	1.49	0	1	5.0	166 P
L28010_at	11	1	20	20	18	0.55	2.23	0	0	11.0	165 P
M13450_at	13	0	20	20	18	0.65	2.71	1	0	Inf	165 P
D85245_at	10	2	20	20	18	0.50	2.05	1	0	5.0	160 P
L11708_at	9	3	20	20	18	0.45	1.60	0	0	3.0	159 P
D79991_at	7	1	20	20	18	0.35	1.81	0	0	7.0	158 P
AJ001421_at	10	0	20	20	18	0.50	1.17	0	0	Inf	157 P
D14043_at	11	1	20	20	17	0.55	2.52	0	0	11.0	157 P
D13370_at	10	1	20	20	17	0.50	1.50	0	0	10.0	153 P
K03195_at	10	2	20	20	18	0.50	2.95	3	0	5.0	153 P
L78465_at	11	3	20	20	18	0.55	2.43	2	1	3.7	150 P
D84239_at	10	2	20	20	18	0.50	1.69	0	0	5.0	149 P
D89016_at	8	1	20	20	17	0.40	1.63	0	0	8.0	149 P
M11717_ma1_at	12	3	20	20	18	0.60	2.87	3	1	4.0	146 P
M11726_at	8	1	20	20	18	0.40	1.57	0	0	8.0	145 P
L13197_at	7	0	20	20	18	0.35	1.59	0	0	Inf	144 P

Side 4

Normal urothellum A

L20773_at	10	3	20	20	18.050	1.40	0	0.33	144 P
HG2614-HT2710_at	7	1	20	20	18.035	1.29	0	0.70	143 P
L36531_at	9	1	20	20	18.045	1.65	0	0.90	142 P
D14686_at	9	2	20	20	18.045	1.25	0	0.45	141 P
D55654_at	9	1	20	20	17.045	1.51	0	0.90	141 P
HG1102-HT1102_at	7	1	20	20	18.035	1.71	0	0.70	140 P
L11669_at	11	2	20	20	17.055	1.37	0	0.55	138 P
L36696_at	7	1	20	20	18.035	1.20	0	0.70	138 P
L41559_at	8	2	20	20	18.040	1.47	0	0.40	138 P
D50911_at	9	2	20	20	18.045	1.29	0	0.45	136 P
D38076_at	7	1	20	20	18.035	1.43	0	0.70	134 P
D86978_at	13	2	20	20	18.065	2.94	2	1.65	133 P
L34587_at	9	1	20	20	18.045	1.38	0	0.90	133 P
AF006041_at	11	3	20	20	18.055	1.49	0	0.37	132 P
D90276_at	8	1	20	20	18.040	1.48	0	0.80	132 P
HG960-HT960_at	10	1	20	20	18.050	1.36	0	0.10.0	132 P
L39064_rna1_at	9	2	20	20	18.045	1.38	0	0.45	132 P
AC002045_xp1_at	8	0	20	20	18.040	1.50	0	0.1nf	128 P
D50912_at	8	1	20	20	18.040	1.42	0	0.80	127 P
D87438_at	8	2	20	20	17.040	1.58	0	0.40	127 P
D28915_at	11	0	20	20	18.055	2.33	1	0.1nf	125 P
HG1602-HT1602_at	7	1	20	20	18.035	0.98	0	0.70	124 P
D21260_at	8	0	20	20	17.040	1.58	0	0.1nf	123 P
D63478_at	9	0	20	20	17.045	2.17	1	0.1nf	123 P
D80005_at	8	2	20	20	18.040	1.84	0	0.40	123 P
D84110_at	14	1	20	20	17.070	2.96	2	0.14.0	123 P
.06132_at	9	3	20	20	18.045	2.09	2	0.30	122 P
.087258_at	9	2	20	20	18.045	1.61	0	0.45	121 P
.01396_at	12	2	20	20	18.060	1.50	0	0.60	121 P
.07033_at	10	2	20	20	18.050	1.90	0	0.50	121 P
.029643_at	10	3	20	20	18.050	1.96	1	0.33	120 P
D50683_at	13	1	20	20	18.065	2.42	0	0.13.0	120 P
D85758_at	9	3	20	20	17.045	1.94	2	0.30	119 P
L19779_at	7	1	20	20	18.035	1.34	0	0.70	119 P
L27706_at	12	2	20	20	18.060	3.22	1	0.60	118 P
L40393_at	9	1	20	20	18.045	2.17	2	0.90	118 P
D83032_at	7	2	20	20	18.035	1.81	3	1.35	117 P
D30755_at	7	2	20	20	18.035	1.53	0	0.35	116 P
D49488_at	14	2	20	20	18.070	3.79	3	0.70	116 P
D83782_at	7	2	20	20	18.035	1.58	1	0.35	116 P
D56495_at	8	0	20	20	18.040	1.57	0	0.1nf	115 P
M13207_at	8	2	20	20	18.040	0.91	0	0.40	115 P
D87673_at	7	1	20	20	17.035	0.94	0	0.70	114 P
M11437_cds2_at	8	0	20	20	18.040	2.10	1	0.1nf	114 P
D21852_at	12	2	20	20	18.060	2.95	2	0.60	113 P
L19183_at	8	2	20	20	18.040	1.49	0	0.40	113 P
L77886_at	12	4	20	20	18.060	2.61	1	0.30	113 P
M18079_at	10	2	20	20	18.050	1.91	1	0.50	113 P
D43950_at	7	1	20	20	18.035	1.79	0	0.70	111 P
D14658_at	8	1	20	20	18.040	1.69	0	0.80	110 P
M18737_rna1_at	8	2	20	20	18.040	1.29	1	0.40	110 P

Side 5

Normal urothelium A

D78611_at	10	1	20	20	18.050	1.91	1	0.10.0	109 P
L49169_at	10	0	20	20	17.050	1.50	0	0 Inf	109 P
D00760_at	10	1	20	20	18.050	1.53	0	0.10.0	107 P
L08666_at	8	2	20	20	17.040	1.26	0	0.4.0	107 P
AB000115_at	7	1	20	20	18.035	0.97	0	0.7.0	106 P
D79886_at	9	1	20	20	18.045	1.89	1	0.9.0	106 P
D86957_at	12	2	20	20	17.060	2.67	1	1.6.0	106 P
D14663_at	9	0	20	20	18.045	2.11	0	0 Inf	105 P
D42043_at	11	3	20	20	18.055	2.49	0	0.3.7	104 P
M12759_at	9	1	20	20	18.045	1.95	1	0.8.0	104 P
HG3510-HT3704_at	9	0	20	20	18.045	1.50	0	0 Inf	103 P
D90086_at	10	1	20	20	18.050	2.04	1	0.10.0	102 P
D79994_at	8	1	20	20	18.040	1.46	0	0.8.0	101 P
HG4058-HT4328_at	10	3	20	20	18.050	1.62	1	0.3.3	100 P
L21936_at	8	0	20	20	18.040	2.02	1	0 Inf	100 P
M11718_at	8	0	20	20	18.040	1.43	0	0 Inf	100 P
D84454_at	7	1	20	20	18.035	1.27	0	0.7.0	99 P
L04490_at	9	2	20	20	18.045	1.69	1	0.4.5	99 P
D21851_at	8	1	20	20	17.040	1.34	0	0.8.0	98 P
HG2274-HT2370_at	7	1	20	20	18.035	1.22	0	0.7.0	98 P
HG4073-HT4343_at	11	2	20	20	18.055	1.92	1	0.5.5	97 P
HG4243-HT4513_at	9	1	20	20	18.045	2.06	0	0.9.0	97 P
HG908-HT908_at	8	1	20	20	18.040	1.04	0	0.8.0	97 P
HG1879-HT1919_at	9	0	20	20	18.045	2.15	1	0 Inf	96 P
L41668_ma1_at	7	1	20	20	17.035	1.22	0	0.7.0	96 P
D50640_at	13	2	20	20	18.065	2.89	2	0.6.5	95 P
HG1869-HT1904_at	9	1	20	20	18.045	1.41	0	0.9.0	95 P
HG2167-HT2237_at	10	2	20	20	18.050	1.92	0	0.5.0	95 P
L13391_at	11	0	20	20	18.055	2.08	0	0 Inf	95 P
L16842_at	8	1	20	20	18.040	0.91	0	0.8.0	95 P
D44466_at	10	1	20	20	18.050	1.47	0	0.10.0	94 P
D49489_at	11	3	20	20	18.055	2.45	1	0.3.7	92 P
D85181_at	11	3	20	20	18.055	2.17	1	0.3.7	92 P
D14878_at	10	2	20	20	18.050	1.95	0	0.5.0	91 P
D06962_at	12	4	20	20	18.060	1.83	0	1.3.0	91 P
D21853_at	7	1	20	20	18.035	1.41	1	0.7.0	90 P
D38549_at	10	3	20	20	17.050	2.39	2	0.3.3	89 P
D84294_at	10	2	20	20	18.050	2.10	2	1.5.0	89 P
D87435_at	8	2	20	20	18.040	1.46	0	0.4.0	89 P
D25278_at	11	2	20	20	17.055	2.02	1	0.5.5	88 P
D79996_at	10	3	20	20	18.050	1.52	1	0.3.3	88 P
L12535_at	9	1	20	20	18.045	3.21	3	0.9.0	88 P
D63480_at	8	1	20	20	18.040	1.90	0	0.8.0	87 P
D79995_at	7	0	20	20	18.035	1.31	0	0 Inf	87 P
L18314_at	7	1	20	20	17.035	1.39	1	0.7.0	87 P
L42379_at	9	3	20	20	18.045	1.74	0	0.3.0	86 P
D30756_at	10	3	20	20	18.050	1.78	2	0.3.3	84 P
D50857_at	8	2	20	20	18.040	1.48	0	0.4.0	84 P
HG1112-HT1112_at	8	0	20	20	17.040	1.25	0	0 Inf	82 P
D83004_at	8	2	20	20	18.040	0.98	0	0.4.0	80 P

Side 6

Normal urothelium A

D87684_at	10	2	20	20	18	0.50	2.64	3	0.50	80 P
HG2059-HT2114_at	8	1	20	20	18	0.40	1.45	0	0.80	78 P
L29008_at	9	3	20	20	18	0.45	1.84	1	0.30	78 P
D29641_at	9	1	20	20	18	0.45	2.71	3	0.90	77 P
L18972_at	7	1	20	20	18	0.35	1.12	0	0.70	77 P
J04056_at	10	3	20	20	17	0.50	1.73	0	0.33	76 P
L40636_at	7	2	20	20	18	0.35	1.43	0	1.35	76 P
L24470_at	7	1	20	20	18	0.35	0.96	0	0.70	75 P
L40357_at	9	2	20	20	18	0.45	1.40	0	1.45	75 P
D13639_at	9	2	20	20	18	0.45	1.59	0	0.45	74 P
L43631_at	9	2	20	20	18	0.45	1.59	0	0.45	70 P
D28476_at	8	1	20	20	18	0.40	1.63	1	0.40	70 P
D42123_at	8	2	20	20	18	0.40	1.63	0	0.80	69 P
D88613_at	7	1	20	20	18	0.35	1.11	0	0.70	69 P
D17400_at	9	2	20	20	17	0.45	1.38	2	0.45	68 P
AF012270_at	9	1	20	20	18	0.45	1.39	0	0.90	67 P
D50927_at	9	1	20	20	18	0.45	1.39	0	0.90	65 P
D38521_at	8	2	20	20	18	0.45	1.48	0	0.45	65 P
D38553_at	7	2	20	20	17	0.40	1.30	1	0.40	64 P
D80006_at	8	1	20	20	18	0.40	2.01	1	0.80	64 P
L42542_at	8	1	20	20	17	0.40	1.09	0	0.80	63 P
D14695_at	11	2	20	20	18	0.55	1.49	0	0.55	62 P
L76703_at	8	2	20	20	18	0.40	1.61	2	0.40	62 P
HG4336-HT4606_at	9	2	20	20	18	0.45	1.91	0	0.45	61 P
D50917_at	11	3	20	20	18	0.55	2.24	2	1.37	58 P
D86985_at	12	3	20	20	18	0.60	1.04	0	1.40	58 P
HG4390-HT4660_at	8	1	20	20	18	0.40	1.15	0	0.80	58 P
L33881_at	12	4	20	20	18	0.60	1.80	1	0.30	58 P
D80004_at	7	1	20	20	17	0.35	1.02	0	0.70	57 P
D43767_at	8	2	20	20	17	0.40	0.90	0	0.40	55 P
D50525_at	9	2	20	20	17	0.45	2.21	3	0.45	55 P
L76380_at	11	3	20	20	18	0.55	1.90	0	0.37	55 P
D42087_at	9	3	20	20	18	0.45	2.32	2	1.30	54 P
HG2460-HT2556_at	9	3	20	20	18	0.45	1.85	2	0.30	50 P
L07515_at	8	2	20	20	18	0.40	1.10	0	0.40	50 P
L20591_at	8	2	20	20	18	0.40	1.30	0	2.40	50 P
L77563_at	7	2	20	20	18	0.35	1.69	2	0.35	50 P
D63412_at	8	1	20	20	18	0.40	1.08	0	0.80	48 P
J04162_at	7	2	20	20	18	0.35	1.57	0	0.35	48 P
D15050_at	8	1	20	20	17	0.40	0.97	0	0.80	45 P
L10123_at	10	2	20	20	18	0.50	2.00	2	0.50	45 P
AFFX-HUMISGF3A/M979	9	3	20	20	18	0.45	1.96	0	0.30	44 P
L32163_at	8	2	20	20	18	0.40	1.79	1	0.40	42 P
D14664_at	9	3	20	20	18	0.45	1.51	1	1.30	41 P
D86425_at	9	3	20	20	18	0.45	2.58	2	0.30	37 P
L11695_at	9	2	20	20	18	0.45	1.08	0	0.45	34 P
D63875_at	9	2	20	20	18	0.45	1.25	0	0.45	29 P
L40388_at	9	1	20	20	18	0.45	1.79	0	0.90	23 P
D87443_at	7	2	20	20	18	0.35	1.71	1	0.35	22 P

Side 7

Normal urothelium B

Gene Name	Positive	Negative	Pairs	Pairs	Pos	Fract	Log	Avg	PM	Ex	MM	E	Pos	Neg	Avg	Diff	Abs	Call
hum_alu_at	69	0	69	69	67	1.00	7.56		14	0	Inf					34065	P	
U14973_at	18	0	20	20	18	0.90	5.89		1	0	Inf					6948	P	
AFFX-CreX-3_at	19	1	20	20	18	0.95	6.74		0	0	19.0					5673	P	
U14969_at	20	0	20	20	18	1.00	6.25		1	0	Inf					5259	P	
U14972_at	19	0	20	20	18	0.95	5.76		0	0	Inf					5247	P	
M24194_at	19	0	20	20	18	0.95	5.19		0	0	Inf					4955	P	
M81757_at	18	0	20	20	18	0.90	6.35		1	0	Inf					4759	P	
U14968_at	16	0	20	20	18	0.80	6.52		2	0	Inf					4706	P	
U12465_at	20	0	20	20	18	1.00	5.57		0	0	Inf					4503	P	
M31951_at	15	3	20	20	18	0.75	5.49		7	0	5.0					4128	P	
AFFX-CreX-5_at	20	0	20	20	18	1.00	5.75		1	0	Inf					3983	P	
M60854_at	18	0	20	20	18	0.90	6.80		4	0	Inf					3548	P	
S79522_at	17	0	20	20	18	0.85	4.80		2	0	Inf					3543	P	
M84711_at	17	0	20	20	18	0.85	6.85		0	0	Inf					3365	P	
M64716_at	14	3	20	20	18	0.70	3.58		1	0	4.7					3345	P	
AFFX-HUMGAPDH/M33197_3	19	0	20	20	17	0.95	4.60		1	0	Inf					3257	P	
M77232_ma1_at	16	1	20	20	18	0.80	6.08		1	0	16.0					3217	P	
AFFX-HSAC07/X00351_3_at	16	0	20	20	18	0.80	4.43		1	0	Inf					3110	P	
U49869_ma1_at	19	0	20	20	17	0.95	6.26		2	0	Inf					3081	P	
U58682_at	17	1	20	20	18	0.85	5.01		2	0	17.0					3033	P	
U14971_at	18	0	20	20	18	0.90	5.20		0	0	Inf					2924	P	
U09953_at	18	0	20	20	18	0.90	6.63		3	0	Inf					2871	P	
U14970_at	18	0	20	20	18	0.90	5.51		2	0	Inf					2723	P	
M31520_at	17	0	20	20	18	0.85	5.17		1	0	Inf					2665	P	
M32405_at	11	3	20	20	18	0.55	2.88		1	0	3.7					2526	P	
M33680_at	17	0	20	20	18	0.85	4.24		2	0	Inf					2461	P	
M84526_at	13	0	20	20	18	0.65	3.35		0	0	Inf					2367	P	
AFFX-BioDn-3_at	15	2	20	20	17	0.75	3.46		0	0	7.5					2281	P	
U25789_at	17	1	20	20	18	0.85	5.37		0	0	17.0					2202	P	
S73591_at	15	0	20	20	18	0.75	4.61		1	0	Inf					1714	P	
U15008_at	13	2	20	20	18	0.65	3.24		0	0	6.5					1556	P	
M26880_at	15	0	20	20	18	0.75	4.49		2	0	Inf					1454	P	
U31875_at	16	0	20	20	18	0.80	4.06		0	0	Inf					1358	P	
AFFX-HSAC07/X00351_M_at	15	1	20	20	18	0.75	3.17		0	0	15.0					1261	P	
M63138_at	8	1	20	20	18	0.40	1.84		0	0	8.0					1215	P	
M63379_at	15	0	20	20	18	0.75	3.69		1	0	Inf					1169	P	
M57710_at	17	0	20	20	17	0.85	4.16		0	0	Inf					1035	P	
U50523_at	13	3	20	20	18	0.65	3.04		1	1	4.3					946	P	
M95787_at	12	0	20	20	18	0.60	2.32		0	0	Inf					944	P	
AFFX-HSAC07/X00351_5_at	13	1	20	20	18	0.65	2.89		0	0	13.0					943	P	
M27891_at	11	2	20	20	18	0.55	1.99		0	0	5.5					866	P	
U21931_at	14	0	20	20	17	0.70	4.30		3	0	Inf					805	P	
U44839_at	11	3	20	20	18	0.55	1.70		0	0	3.7					779	P	
M23613_at	11	2	20	20	18	0.55	1.96		0	0	5.5					772	P	
M34182_at	12	2	20	20	18	0.60	1.24		0	0	6.0					746	P	
U46692_ma1_at	13	2	20	20	18	0.65	3.05		0	0	6.5					746	P	
U37690_at	12	0	20	20	18	0.60	2.01		0	0	Inf					688	P	
M80563_at	11	0	20	20	18	0.55	2.34		0	0	Inf					678	P	
U41635_at	8	1	20	20	18	0.40	1.75		0	0	8.0					658	P	

Side 1

Normal urothelium B

U46751_at	10	2	20	20	18 0.50	2.76	1	0 5.0	644 P
U03057_at	8	2	20	20	18 0.40	1.23	0	0 4.0	643 P
S65738_at	14	1	20	20	18 0.70	3.33	0	0 14.0	621 P
S77356_at	13	3	20	20	18 0.65	2.78	0	0 4.3	615 P
AFFX-HUNGAPDH/M33197_A	12	3	20	20	17 0.60	2.00	0	0 4.0	614 P
U62739_at	10	2	20	20	18 0.50	1.95	0	0 5.0	612 P
S75463_at	9	2	20	20	18 0.45	1.83	1	0 4.5	596 P
U62962_at	11	2	20	20	18 0.55	2.04	0	0 5.5	595 P
M35878_at	12	3	20	20	18 0.60	1.70	0	1 4.0	577 P
U46570_at	8	1	20	20	18 0.40	1.28	0	0 8.0	550 P
AFFX-HUNGAPDH/M33197_5	12	0	20	20	18 0.60	2.95	0	0 Inf	539 P
U11861_at	10	2	20	20	18 0.50	1.58	0	0 5.0	536 P
M57567_at	10	2	20	20	18 0.50	1.70	0	0 10.0	525 P
U01212_at	10	2	20	20	18 0.50	1.25	0	0 5.0	517 P
U03398_at	10	3	20	20	18 0.50	2.48	2	0 3.3	500 P
U45975_at	7	2	20	20	18 0.35	1.31	0	0 3.5	485 P
U46499_at	10	3	20	20	17 0.50	1.65	0	0 3.3	484 P
M76378_at	8	2	20	20	18 0.40	1.16	0	0 4.0	476 P
M55593_at	10	1	20	20	18 0.50	2.09	1	0 10.0	471 P
U09117_at	7	2	20	20	18 0.35	1.38	0	0 3.5	464 P
U46025_at	11	2	20	20	18 0.55	1.76	1	0 5.5	463 P
U51478_at	13	1	20	20	18 0.65	3.39	0	0 13.0	459 P
M28877_at	10	0	20	20	18 0.50	1.79	1	0 Inf	457 P
M32053_at	9	1	20	20	18 0.45	1.90	0	0 9.0	452 P
AFFX-BioC-5_at	8	1	20	20	18 0.40	1.19	0	0 8.0	434 P
U09813_at	12	1	20	20	18 0.60	2.90	0	0 12.0	434 P
M97815_at	9	2	20	20	18 0.45	1.38	0	0 4.5	431 P
M88279_at	11	0	20	20	18 0.55	2.28	0	0 Inf	428 P
S73149_at	8	1	20	20	18 0.40	1.14	0	0 8.0	424 P
M84349_at	11	2	20	20	18 0.55	2.40	0	0 5.5	415 P
U29656_at	7	0	20	20	18 0.35	1.70	0	0 Inf	412 P
U37689_at	10	0	20	20	18 0.50	1.42	0	0 Inf	406 P
M22382_at	9	0	20	20	18 0.45	1.45	0	0 Inf	396 P
S68616_at	8	2	20	20	18 0.40	1.37	0	0 4.0	391 P
M86400_at	11	1	20	20	18 0.55	2.44	1	0 11.0	387 P
U57342_at	9	1	20	20	18 0.45	1.93	0	0 9.0	387 P
M60858_ma1_at	10	2	20	20	18 0.50	2.42	0	0 5.0	376 P
AFFX-BioOn-5_at	9	0	20	20	18 0.45	1.37	0	0 Inf	373 P
M84332_at	10	1	20	20	18 0.50	1.49	0	0 10.0	370 P
M38690_at	10	0	20	20	18 0.50	2.51	1	0 Inf	367 P
M22538_at	7	0	20	20	18 0.35	1.00	0	0 Inf	365 P
U57450_at	10	0	20	20	18 0.50	1.17	0	0 Inf	365 P
U30825_at	11	3	20	20	18 0.55	1.59	0	0 3.7	355 P
M75126_at	9	1	20	20	18 0.45	1.67	0	0 9.0	347 P
M95627_at	7	0	20	20	18 0.35	1.50	0	0 Inf	344 P
U50136_ma1_at	8	2	20	20	18 0.40	1.16	0	0 4.0	338 P
U14603_at	12	0	20	20	18 0.60	2.56	0	0 Inf	337 P
M75099_at	9	0	20	20	18 0.45	2.03	0	0 Inf	336 P
U33821_at	10	1	20	20	18 0.50	1.67	0	0 10.0	336 P
U21128_at	12	3	20	20	18 0.60	2.20	1	1 4.0	327 P
M28713_at	7	1	20	20	18 0.35	1.35	0	0 7.0	324 P
U37519_at	7	2	20	20	18 0.35	1.68	0	0 3.5	321 P

Side 2

Normal urothelium B

M73547_at	12	4	20	20	20	18.060	2.03	1	0.30	318 P
M96803_at	12	2	20	20	20	18.060	1.31	0	1.60	310 P
U41371_at	12	1	20	20	20	18.060	2.45	0	0.120	310 P
AFFX-HSAC07/X00351_3_at	13	0	20	20	20	17.065	2.19	0	0.1nf	303 P
M94345_at	10	2	20	20	20	18.050	1.48	0	0.50	302 P
U02493_at	8	0	20	20	20	18.040	1.74	0	0.1nf	302 P
M58285_at	8	0	20	20	20	18.040	1.16	0	0.1nf	293 P
U02570_at	7	1	20	20	20	18.035	1.53	0	0.70	293 P
AFFX-Bioc-3_at	7	1	20	20	20	18.035	1.33	0	0.70	292 P
M62831_at	8	0	20	20	20	18.040	1.16	0	0.1nf	291 P
U32944_at	13	1	20	20	20	18.065	3.00	2	0.130	290 P
U52522_at	7	2	20	20	20	18.035	1.74	0	0.35	288 P
M88338_at	7	1	20	20	20	18.035	0.97	0	0.70	283 P
M77349_at	14	0	20	20	20	18.070	2.49	0	0.1nf	277 P
U29607_at	13	3	20	20	20	18.065	2.26	2	1.43	276 P
M31303_rna1_at	9	2	20	20	20	18.045	1.63	0	0.45	274 P
M58459_at	11	1	20	20	20	18.055	2.84	2	0.110	271 P
M63959_at	10	2	20	20	20	18.050	1.26	0	0.50	270 P
M24899_at	10	2	20	20	20	18.050	1.56	0	0.50	269 P
U07857_at	13	2	20	20	20	17.065	2.51	0	1.65	269 P
U30888_at	10	2	20	20	20	18.050	1.49	0	0.50	266 P
M81780_cds5_at	8	1	20	20	20	18.040	1.13	0	0.80	258 P
M23254_at	11	3	20	20	20	17.055	1.64	0	0.37	256 P
U05659_at	10	2	20	20	20	18.050	1.74	1	1.50	256 P
U49785_at	12	1	20	20	20	18.060	2.29	0	0.120	256 P
U10323_at	10	1	20	20	20	17.050	2.08	0	0.100	254 P
M64347_at	7	1	20	20	20	18.035	1.70	2	1.70	253 P
U20285_at	9	2	20	20	20	18.045	1.32	0	0.45	246 P
U43286_at	11	0	20	20	20	18.055	2.55	1	0.1nf	246 P
M82809_at	13	1	20	20	20	18.065	2.26	0	0.130	243 P
M96859_at	10	3	20	20	20	18.050	2.22	1	0.33	243 P
U56637_at	7	2	20	20	20	17.035	1.37	0	1.35	240 P
U40990_at	7	0	20	20	20	18.035	1.09	0	0.1nf	238 P
U49082_at	8	2	20	20	20	18.040	0.93	0	0.40	227 P
M91029_cds2_at	7	2	20	20	20	18.035	1.32	0	0.35	224 P
U52100_at	7	1	20	20	20	18.035	1.25	0	0.70	224 P
U40998_at	8	2	20	20	20	18.040	1.32	0	0.40	221 P
M90299_at	8	2	20	20	20	18.040	1.20	0	0.40	220 P
S71824_at	7	1	20	20	20	18.035	1.30	0	0.70	220 P
M31627_at	11	2	20	20	20	18.055	1.69	0	0.55	219 P
M83751_at	7	2	20	20	20	17.035	1.46	0	0.35	219 P
U43077_at	8	1	20	20	20	18.040	1.58	0	0.80	216 P
M29960_at	10	2	20	20	20	18.050	1.52	2	0.50	215 P
M92449_at	10	2	20	20	20	18.050	1.94	1	0.50	212 P
M29536_at	11	2	20	20	20	18.055	1.95	0	0.55	207 P
S81083_cds1_at	7	1	20	20	20	18.035	1.07	0	0.70	207 P
M81601_at	7	1	20	20	20	18.035	1.55	0	0.70	205 P
U50535_at	11	3	20	20	20	18.055	2.10	0	0.37	203 P
M67284_at	9	2	20	20	20	18.045	1.41	0	0.45	202 P
U24152_at	7	2	20	20	20	18.035	1.43	0	0.35	199 P
U51678_at	10	3	20	20	20	18.050	1.77	0	0.33	199 P
M64571_at	9	2	20	20	20	18.045	1.43	0	0.45	197 P

Side 3

Normal urothelium B

574017_at	10	2	20	20	20	18.0.50	1.59	0	0.5.0	196 P
U38846_at	8	1	20	20	20	18.0.40	1.39	0	0.6.0	196 P
M32313_at	9	1	20	20	20	18.0.45	1.62	1	0.9.0	194 P
U43148_at	8	1	20	20	20	18.0.40	1.08	0	0.8.0	191 P
M55543_at	8	2	20	20	20	18.0.40	1.53	0	0.4.0	189 P
U37122_at	9	2	20	20	20	17.0.45	1.45	0	0.4.5	188 P
M37245_at	10	1	20	20	20	18.0.50	1.81	0	0.10.0	186 P
U34962_at	9	1	20	20	20	18.0.45	1.53	0	0.9.0	186 P
M94556_at	10	3	20	20	20	18.0.50	1.78	1	0.3.3	183 P
M31013_at	11	2	20	20	20	17.0.55	2.34	1	0.5.5	175 P
U15174_at	7	1	20	20	20	18.0.35	1.30	0	1.7.0	173 P
M94856_at	8	1	20	20	20	18.0.40	1.88	1	0.8.0	172 P
U00952_at	9	1	20	20	20	17.0.45	2.14	0	0.9.0	170 P
U14193_at	8	2	20	20	20	18.0.40	1.46	0	0.4.0	170 P
U40343_at	7	1	20	20	20	18.0.35	1.29	0	0.7.0	170 P
U02020_at	9	3	20	20	20	18.0.45	2.42	1	0.3.0	168 P
U36764_at	10	3	20	20	20	18.0.50	1.60	1	0.3.3	167 P
M86667_at	9	3	20	20	20	18.0.45	1.42	0	0.3.0	166 P
S69115_at	7	1	20	20	20	18.0.35	2.01	1	0.7.0	166 P
M29971_at	8	1	20	20	20	18.0.40	0.94	0	0.8.0	165 P
U18937_at	7	2	20	20	20	18.0.35	1.54	0	1.3.5	164 P
U31384_at	8	2	20	20	20	18.0.40	1.12	0	0.4.0	161 P
S83364_at	9	2	20	20	20	18.0.45	1.55	0	0.4.5	159 P
U54778_at	9	3	20	20	20	18.0.45	1.93	1	0.3.0	159 P
U03486_at	7	0	20	20	20	18.0.35	0.91	0	0.1nf	158 P
M74002_at	7	1	20	20	20	18.0.35	1.06	0	0.7.0	157 P
U20325_at	7	2	20	20	20	18.0.35	1.74	1	0.3.5	157 P
M80629_at	11	1	20	20	20	18.0.55	1.58	0	0.11.0	156 P
U20582_at	7	1	20	20	20	18.0.35	1.01	0	0.7.0	154 P
U27185_at	9	2	20	20	20	18.0.45	1.57	0	0.4.5	152 P
U57721_at	10	1	20	20	20	18.0.50	2.47	1	0.10.0	150 P
M34423_at	8	1	20	20	20	18.0.40	1.03	0	0.8.0	149 P
U47742_at	8	1	20	20	20	17.0.40	1.12	0	0.8.0	149 P
U34252_at	10	3	20	20	20	18.0.50	2.26	2	0.3.3	148 P
U30999_at	9	3	20	20	20	17.0.45	1.48	0	0.3.0	146 P
U53446_at	9	2	20	20	20	18.0.45	1.43	0	0.4.5	145 P
S81419_at	7	2	20	20	20	18.0.35	1.38	0	0.3.5	143 P
U31383_at	9	3	20	20	20	18.0.45	1.62	1	0.3.0	142 P
U29680_at	8	2	20	20	20	18.0.40	1.47	0	0.4.0	139 P
M58603_at	8	2	20	20	20	18.0.40	1.01	0	0.4.0	138 P
M93425_at	9	1	20	20	20	18.0.45	1.39	0	0.9.0	137 P
U21049_at	9	1	20	20	20	18.0.45	1.31	0	0.9.0	130 P
U59919_at	9	2	20	20	20	18.0.45	1.33	0	0.4.5	128 P
S76965_at	8	1	20	20	20	18.0.40	2.11	0	0.8.0	123 P
M28879_at	9	2	20	20	20	18.0.45	1.50	2	0.4.5	122 P
U15782_at	7	2	20	20	20	18.0.35	1.53	1	0.3.5	122 P
M85276_at	8	2	20	20	20	18.0.40	0.90	0	0.4.0	120 P
U03688_at	8	1	20	20	20	18.0.40	1.65	0	0.8.0	116 P
U28249_at	7	1	20	20	20	18.0.35	1.69	1	0.7.0	115 P
U08316_at	9	3	20	20	20	18.0.45	1.62	0	0.3.0	113 P
U07158_at	8	2	20	20	20	18.0.40	1.19	1	1.4.0	111 P
U40369_rna1_at	9	2	20	20	20	18.0.45	1.75	0	1.4.5	111 P

Side 4

Normal urothelium B									
U49352_at	12	3	20	20	18 0.60	2.61	2	0 4.0	111 P
U59423_at	7	2	20	20	18 0.35	1.31	0	0 3.5	107 P
M65131_ma1_at	7	1	20	20	18 0.35	1.23	0	0 7.0	102 P
U09412_at	8	2	20	20	18 0.40	1.05	0	0 4.0	98 P
U50928_at	11	1	20	20	18 0.55	1.92	1	1 11.0	98 P
U49114_at	10	3	20	20	18 0.50	1.51	1	0 3.3	96 P
U02632_at	9	2	20	20	18 0.45	1.22	0	0 4.5	90 P
U19345_at	7	1	20	20	18 0.35	1.53	0	0 7.0	87 P
U53003_at	9	3	20	20	18 0.45	1.78	1	0 3.0	82 P
U13616_at	9	3	20	20	18 0.45	1.45	2	1 3.0	78 P
U47054_at	7	2	20	20	18 0.35	1.58	2	0 3.5	78 P
M23161_at	8	1	20	20	18 0.40	1.14	0	0 8.0	77 P
M90696_at	9	1	20	20	18 0.45	1.46	2	0 9.0	76 P
U46752_at	8	2	20	20	18 0.40	1.14	0	0 4.0	76 P
U03056_at	7	2	20	20	18 0.35	1.44	2	0 3.5	70 P
U28386_at	9	2	20	20	18 0.45	1.66	1	0 4.5	69 P
U55786_at	7	1	20	20	18 0.35	0.96	0	1 7.0	69 P
U09367_at	8	2	20	20	18 0.40	0.92	0	0 4.0	67 P
U31116_at	7	2	20	20	18 0.35	1.42	1	0 3.5	67 P
U35735_at	7	1	20	20	18 0.35	1.17	0	0 7.0	65 P
U05875_at	7	2	20	20	18 0.35	1.52	0	0 3.5	37 P

Normal urothelium C											
Gene Name	Positive	Negative	Pairs	Pairs Used	InAv Pos	Fract Log Avg	PM Exces-MM	Exces Pos/Neg	Avg Diff	Abs Call	
hum_alu_at	69	0	69	69	67.100	7.20	9	0 Inf	22212 P		
X12962_at	18	0	20	20	18.090	7.43	5	0 Inf	11237 P		
X56932_at	20	0	20	20	18.100	8.65	9	0 Inf	8427 P		
X70759_at	20	0	20	20	18.100	8.49	8	0 Inf	8169 P		
X69150_at	19	0	20	20	18.095	7.61	8	0 Inf	6897 P		
X15940_at	19	0	20	20	18.095	7.00	4	0 Inf	5994 P		
X06617_at	20	0	20	20	18.100	6.37	1	0 Inf	5392 P		
X03342_at	20	0	20	20	18.100	7.66	5	0 Inf	5147 P		
AFFX-CreX-3_at	19	0	20	20	18.095	8.47	6	0 Inf	4809 P		
X17206_at	19	0	20	20	18.095	7.56	6	0 Inf	4634 P		
X64707_at	15	0	20	20	18.075	6.10	3	0 Inf	4230 P		
Z23090_at	17	0	20	20	18.085	5.02	0	0 Inf	4116 P		
X62691_at	20	0	20	20	18.100	7.40	3	0 Inf	4105 P		
X65614_at	20	0	20	20	18.100	7.02	2	0 Inf	4027 P		
AB002533_at	19	0	20	20	18.095	6.88	4	0 Inf	4012 P		
X16064_at	17	0	20	20	18.085	7.60	4	0 Inf	3785 P		
X63527_at	20	0	20	20	18.100	7.94	9	0 Inf	3755 P		
X55954_at	20	0	20	20	18.100	8.02	5	0 Inf	3744 P		
AFFX-CreX-5_at	20	0	20	20	18.100	8.00	6	0 Inf	3744 P		
X80822_at	18	0	20	20	18.090	5.48	0	0 Inf	3711 P		
X67247_ma1_at	20	0	20	20	17.100	8.00	6	0 Inf	3602 P		
Z26876_at	19	0	20	20	18.095	7.54	5	0 Inf	3163 P		
X73460_at	19	0	20	20	18.095	6.44	4	0 Inf	3009 P		
X53777_at	18	1	20	20	18.090	7.48	6	0 18.0	2851 P		
X79234_at	20	0	20	20	18.100	7.49	3	0 Inf	2843 P		
AFFX-HSAC07/X00351_3_at	19	0	20	20	18.095	6.48	2	0 Inf	2864 P		
X69391_at	20	0	20	20	18.100	6.86	4	0 Inf	2656 P		
AFFX-BioDr-3_at	18	0	20	20	18.090	5.07	0	0 Inf	2613 P		
Z28407_at	15	1	20	20	18.075	4.43	1	0 15.0	2557 P		
AFFX-HUMGAPDH/M33197_3_a	19	0	20	20	17.095	5.41	0	0 Inf	2535 P		
U78027_ma3_at	18	2	20	20	18.090	7.15	4	0 9.0	2430 P		
Z25749_ma1_at	16	1	20	20	18.080	5.44	2	0 16.0	2348 P		
X00274_at	20	0	20	20	18.100	8.13	7	0 Inf	2334 P		
X56987_ma1_at	19	0	20	20	18.095	5.12	5	0 Inf	2279 P		
Y00705_at	18	0	20	20	18.090	7.34	2	0 Inf	2124 P		
:55715_at	17	0	20	20	18.085	5.96	2	0 Inf	1884 P		
07755_at	18	0	20	20	18.090	6.05	0	0 Inf	1877 P		
52986_at	15	2	20	20	17.075	5.36	2	0 7.5	1485 P		
:52851_ma1_at	20	0	20	20	18.100	6.46	1	0 Inf	1384 P		
(15183_at	17	2	20	20	18.085	5.76	2	1 8.5	1273 P		
X93036_at	16	0	20	20	18.080	5.04	3	0 Inf	1232 P		
X95404_at	14	0	20	20	18.070	4.70	2	0 Inf	1170 P		
X57959_at	19	0	20	20	17.095	7.19	3	0 Inf	1125 P		
X15341_at	19	0	20	20	18.095	6.40	0	0 Inf	1071 P		
AFFX-HSAC07/X00351_M_at	16	1	20	20	18.080	4.07	0	0 16.0	1036 P		
Y00433_at	14	0	20	20	18.070	4.15	0	0 Inf	1027 P		
X60489_at	17	0	20	20	18.085	5.73	2	0 Inf	996 P		
U90915_at	17	0	20	20	18.085	5.47	2	0 Inf	988 P		
X16560_at	18	1	20	20	18.090	6.30	4	0 18.0	983 P		
X16832_at	16	0	20	20	18.080	5.03	1	0 Inf	971 P		
X80909_at	17	0	20	20	18.085	5.63	1	0 Inf	939 P		

Side 1

Normal urothelium C												
	17	13	15	17	12	18	16	15	13	3	0 Inf	830 P
X15822_at	0	1	0	20	20	20	20	20	20	0	0 13.0	826 P
AF001548_ma1_at	20	20	20	20	20	20	20	20	20	0	0 Inf	818 P
U93205_at	20	20	20	20	20	20	20	20	20	0	0 5.7	801 P
X13839_at	3	3	20	20	20	20	20	20	20	0	0 12.0	797 P
X12447_at	1	1	20	20	20	20	20	20	20	1	0 Inf	772 P
Y00503_at	0	0	20	20	20	20	20	20	20	0	0 Inf	758 P
X51466_at	16	0	20	20	20	20	20	20	20	0	0 Inf	739 P
XG6314_at	0	0	20	20	20	20	20	20	20	0	0 15.0	710 P
AFFX-HSAC07/X00351_5_at	1	1	20	20	20	20	20	20	20	0	0 7.0	682 P
AFFX-HUMGAPDH/M33197_M_f	2	2	20	20	20	20	20	20	20	0	0 13.0	645 P
X01630_at	1	1	20	20	20	20	20	20	20	0	0 16.0	637 P
X62654_ma1_at	0	0	20	20	20	20	20	20	20	0	0 Inf	608 P
XG7951_at	19	0	20	20	20	20	20	20	20	0	0 4.3	604 P
ZB4721_cd52_at	3	3	20	20	20	20	20	20	20	0	0 14.0	575 P
UG7171_at	1	1	20	20	20	20	20	20	20	0	0 Inf	559 P
UP4586_at	18	0	20	20	20	20	20	20	20	2	0 Inf	553 P
LZ0688_at	14	0	20	20	20	20	20	20	20	0	0 6.0	527 P
X56494_at	2	2	20	20	20	20	20	20	20	0	0 12.0	512 P
AFFX-BioDn-5_at	12	1	20	20	20	20	20	20	20	2	0 18.0	508 P
X13794_ma1_at	1	1	20	20	20	20	20	20	20	0	0 Inf	499 P
X171973_at	14	0	20	20	20	20	20	20	20	0	0 Inf	492 P
X82693_at	13	0	20	20	20	20	20	20	20	0	0 15.0	488 P
X71874_cd51_at	1	1	20	20	20	20	20	20	20	1	0 Inf	487 P
X55733_at	12	0	20	20	20	20	20	20	20	1	0 16.0	485 P
X51521_at	16	1	20	20	20	20	20	20	20	0	0 Inf	484 P
X07979_at	0	0	20	20	20	20	20	20	20	0	0 Inf	449 P
AFFX-HSAC07/X00351_3_st	13	0	20	20	20	20	20	20	20	0	0 Inf	447 P
V00572_at	20	0	20	20	20	20	20	20	20	0	0 14.0	409 P
Y00282_at	18	0	20	20	20	20	20	20	20	1	0 5.0	411 P
U78095_at	13	0	20	20	20	20	20	20	20	0	0 6.5	408 P
X02317_at	18	0	20	20	20	20	20	20	20	0	0 7.5	404 P
U79294_at	10	2	20	20	20	20	20	20	20	0	0 5.5	403 P
U73843_at	13	2	20	20	20	20	20	20	20	2	1 7.0	400 P
X80200_at	14	1	20	20	20	20	20	20	20	0	0 13.0	397 P
AFFX-HUMGAPDH/M33197_5_a	15	2	20	20	20	20	20	20	20	1	0 8.0	395 P
X03100_cd52_at	11	2	20	20	20	20	20	20	20	0	0 7.0	395 P
X77584_at	14	2	20	20	20	20	20	20	20	1	0 11.0	393 P
AFFX-BloC-5_at	13	1	20	20	20	20	20	20	20	0	0 4.0	374 P
X81817_at	16	2	20	20	20	20	20	20	20	1	0 Inf	372 P
Z21507_at	14	2	20	20	20	20	20	20	20	0	1 5.0	370 P
V00563_at	14	0	20	20	20	20	20	20	20	2	0 15.0	366 P
U77604_at	11	1	20	20	20	20	20	20	20	0	0 5.5	362 P
X02152_at	12	3	20	20	20	20	20	20	20	3	0 10.0	359 P
Y67690_at	17	0	20	20	20	20	20	20	20	0	0 Inf	357 P
Y4182_at	15	3	20	20	20	20	20	20	20	0	0 11.0	355 P
Y1727_at	1	1	20	20	20	20	20	20	20	0	0 3.0	351 P
Y3550_at	11	2	20	20	20	20	20	20	20	0	0 12.0	342 P
Y75593_at	10	1	20	20	20	20	20	20	20	1	0 7.5	342 P
Y72511_at	13	0	20	20	20	20	20	20	20	1		
X99688_at	11	1	20	20	20	20	20	20	20	1		
J02783_at	12	4	20	20	20	20	20	20	20	1		
U85611_at	12	1	20	20	20	20	20	20	20	1		
X76013_at	15	2	20	20	20	20	20	20	20	1		

Normal urothelium C																			
X13238_at	15	1	20	20	18.075	4.48	0	0	0	0	0	0	0	0	0	0	0	0	339 P
X59892_at	11	1	20	20	18.055	2.32	0	0	0	0	0	0	0	0	0	0	0	0	338 P
Y00764_at	16	1	20	20	18.080	4.86	0	0	0	0	0	0	0	0	0	0	0	0	335 P
X59417_at	13	0	20	20	18.065	3.47	1	1	1	1	1	1	1	1	1	1	1	1	327 P
X16135_at	11	3	20	20	18.055	2.42	0	0	0	0	0	0	0	0	0	0	0	0	326 P
Z48950_at	16	1	20	20	18.080	3.45	0	0	0	0	0	0	0	0	0	0	0	0	308 P
X75252_at	11	1	20	20	18.055	2.58	0	0	0	0	0	0	0	0	0	0	0	0	307 P
U90313_at	13	0	20	20	18.065	3.28	1	1	1	1	1	1	1	1	1	1	1	1	295 P
X86809_at	9	1	20	20	18.045	1.66	0	0	0	0	0	0	0	0	0	0	0	0	295 P
U78521_at	9	3	20	20	18.045	1.36	0	0	0	0	0	0	0	0	0	0	0	0	294 P
Z32765_at	12	3	20	20	18.060	1.79	0	0	0	0	0	0	0	0	0	0	0	0	294 P
Z48199_at	9	0	20	20	18.045	2.00	0	0	0	0	0	0	0	0	0	0	0	0	294 P
X53331_at	14	0	20	20	18.070	3.12	0	0	0	0	0	0	0	0	0	0	0	0	293 P
X69908_ma1_at	10	3	20	20	18.050	2.47	0	0	0	0	0	0	0	0	0	0	0	0	292 P
X75961_at	12	0	20	20	18.060	3.38	0	0	0	0	0	0	0	0	0	0	0	0	290 P
AFFX-BioC-3_at	13	2	20	20	18.065	2.47	0	0	0	0	0	0	0	0	0	0	0	0	287 P
X69111_at	13	3	20	20	18.065	2.18	0	0	0	0	0	0	0	0	0	0	0	0	284 P
X17042_at	13	0	20	20	18.065	4.02	1	1	1	1	1	1	1	1	1	1	1	1	280 P
X60221_at	17	2	20	20	18.085	3.05	0	0	0	0	0	0	0	0	0	0	0	0	278 P
U84569_at	10	2	20	20	17.050	1.74	0	0	0	0	0	0	0	0	0	0	0	0	270 P
U73824_at	15	0	20	20	18.075	3.98	1	1	1	1	1	1	1	1	1	1	1	1	268 P
X15880_at	9	2	20	20	18.045	2.53	0	0	0	0	0	0	0	0	0	0	0	0	267 P
X91257_at	11	0	20	20	18.055	2.57	0	0	0	0	0	0	0	0	0	0	0	0	266 P
X56253_ma1_at	10	2	20	20	18.050	1.39	0	0	0	0	0	0	0	0	0	0	0	0	263 P
U94855_at	15	1	20	20	17.075	4.00	2	2	2	2	2	2	2	2	2	2	2	2	259 P
X91504_at	10	1	20	20	17.050	1.34	0	0	0	0	0	0	0	0	0	0	0	0	256 P
X87838_at	16	1	20	20	17.080	3.65	1	1	1	1	1	1	1	1	1	1	1	1	255 P
U86529_at	9	0	20	20	18.045	1.84	0	0	0	0	0	0	0	0	0	0	0	0	252 P
U72512_at	7	0	20	20	17.035	1.27	0	0	0	0	0	0	0	0	0	0	0	0	251 P
X74104_at	14	1	20	20	18.070	3.37	1	1	1	1	1	1	1	1	1	1	1	1	249 P
U66879_at	11	2	20	20	18.055	2.30	0	0	0	0	0	0	0	0	0	0	0	0	246 P
X04085_ma1_at	11	2	20	20	18.055	2.04	0	0	0	0	0	0	0	0	0	0	0	0	246 P
X04412_at	9	1	20	20	18.045	2.03	0	0	0	0	0	0	0	0	0	0	0	0	246 P
Y00281_at	10	0	20	20	18.050	2.36	0	0	0	0	0	0	0	0	0	0	0	0	244 P
Z27113_at	10	1	20	20	18.050	1.98	0	0	0	0	0	0	0	0	0	0	0	0	241 P
X78136_at	12	2	20	20	18.060	3.45	1	1	1	1	1	1	1	1	1	1	1	1	240 P
X86779_at	8	1	20	20	18.040	1.38	0	0	0	0	0	0	0	0	0	0	0	0	236 P
D13146_cds1_at	10	1	20	20	18.050	1.62	0	0	0	0	0	0	0	0	0	0	0	0	235 P
X71428_at	12	3	20	20	18.060	2.10	1	1	1	1	1	1	1	1	1	1	1	1	230 P
U70063_at	11	1	20	20	18.055	2.39	0	0	0	0	0	0	0	0	0	0	0	0	229 P
U88964_at	12	1	20	20	18.060	2.85	0	0	0	0	0	0	0	0	0	0	0	0	229 P
U83115_at	12	3	20	20	18.060	1.65	0	0	0	0	0	0	0	0	0	0	0	0	228 P
X62466_at	12	0	20	20	17.060	2.49	0	0	0	0	0	0	0	0	0	0	0	0	224 P
X69699_at	12	2	20	20	18.045	2.02	0	0	0	0	0	0	0	0	0	0	0	0	221 P
U90878_at	9	2	20	20	18.065	2.60	0	0	0	0	0	0	0	0	0	0	0	0	220 P
X13546_ma1_at	13	2	20	20	17.060	2.45	0	0	0	0	0	0	0	0	0	0	0	0	216 P
U77948_at	12	1	20	20	18.055	2.66	1	1	1	1	1	1	1	1	1	1	1	1	215 P
X86693_at	11	1	20	20	18.055	2.36	2	2	2	2	2	2	2	2	2	2	2	2	212 P
X74801_at	10	2	20	20	18.050	2.36	0	0	0	0	0	0	0	0	0	0	0	0	211 P
59834_at	11	1	20	20	18.055	2.91	0	0	0	0	0	0	0	0	0	0	0	0	209 P
59834_at	13	3	20	20	18.065	3.06	1	1	1	1	1	1	1	1	1	1	1	1	208 P
59834_at	8	2	20	20	18.040	1.54	0	0	0	0	0	0	0	0	0	0	0	0	207 P
89267_at	7	0	20	20	18.035	1.18	0	0	0	0	0	0	0	0	0	0	0	0	207 P

Normal urothelium C

L10413_at	10	0	20	20	18.050	2.06	0	0 Inf	206 P
U68566_at	9	2	20	20	18.045	1.55	0	0 4.5	203 P
U90716_at	11	2	20	20	18.055	3.01	3	1 5.5	203 P
X83618_at	12	1	20	20	18.060	1.90	0	0 12.0	202 P
X83425_at	9	2	20	20	18.045	1.86	0	0 4.5	201 P
X12794_at	9	1	20	20	18.045	1.47	0	0 9.0	197 P
X60036_at	14	2	20	20	18.070	2.41	0	0 17.0	196 P
X67325_at	10	2	20	20	18.050	2.46	0	0 5.0	194 P
U68142_at	11	1	20	20	18.055	2.42	0	0 11.0	193 P
X57346_at	16	0	20	20	17.080	3.12	0	0 8.0	192 P
X74785_at	9	2	20	20	17.045	1.61	0	0 Inf	191 P
X62456_at	13	2	20	20	18.065	3.07	0	0 4.5	190 P
X83218_at	16	0	20	20	17.080	3.40	0	0 6.5	190 P
U79254_at	14	0	20	20	18.070	2.90	0	0 Inf	190 P
X66401_cds1_at	11	2	20	20	18.055	3.24	0	0 Inf	188 P
Z35093_at	10	0	20	20	18.050	2.85	1	0 Inf	187 P
X54304_at	12	1	20	20	18.060	2.55	1	0 12.0	187 P
X70476_at	13	2	20	20	18.065	3.26	1	0 6.5	186 P
X68733_ma1_at	7	1	20	20	18.035	1.53	0	0 7.0	185 P
U73379_at	11	2	20	20	17.055	1.92	0	0 5.5	181 P
U77396_at	10	2	20	20	18.050	2.09	0	0 5.0	180 P
X17620_at	7	1	20	20	18.035	1.16	0	0 7.0	178 P
X69910_at	13	2	20	20	18.065	2.25	0	0 6.5	176 P
X99459_at	8	1	20	20	18.040	1.40	0	0 8.0	176 P
X99920_at	12	1	20	20	18.060	1.52	0	0 12.0	176 P
X15414_at	15	1	20	20	18.075	3.40	1	0 Inf	174 P
Z29505_at	11	2	20	20	18.055	1.92	0	0 5.5	174 P
Z37986_at	14	0	20	20	17.070	2.84	0	0 Inf	173 P
Z19574_ma1_at	7	0	20	20	18.035	1.45	0	0 Inf	172 P
U78525_at	10	2	20	20	18.050	1.34	0	0 5.0	172 P
X59434_at	9	1	20	20	18.045	1.54	0	0 9.0	172 P
Y11681_at	9	2	20	20	18.045	1.65	0	0 4.5	170 P
X99209_at	7	1	20	20	18.035	1.29	0	0 7.0	166 P
U72515_at	11	2	20	20	17.055	1.80	0	0 5.5	160 P
U70660_at	11	2	20	20	18.055	2.56	0	0 5.5	159 P
X61970_at	13	2	20	20	17.065	2.02	0	0 6.5	158 P
U94592_at	12	1	20	20	18.060	1.64	0	0 12.0	157 P
X62078_at	11	1	20	20	18.055	2.44	0	0 11.0	156 P
U82010_ma1_at	10	1	20	20	18.050	2.41	0	0 10.0	156 P
X63422_at	11	1	20	20	18.055	1.79	0	0 11.0	153 P
X72964_at	11	3	20	20	18.055	2.46	1	1 3.7	153 P
X76228_at	8	2	20	20	18.040	1.04	0	0 4.0	152 P
U83246_at	7	1	20	20	18.035	1.07	0	0 7.0	148 P
U79266_at	9	0	20	20	17.045	2.01	0	0 Inf	148 P
U90547_at	8	0	20	20	18.040	1.27	0	0 Inf	148 P
X97074_at	9	1	20	20	18.045	1.59	0	0 9.0	148 P
D50405_at	10	1	20	20	18.050	1.70	0	0 10.0	146 P
U93237_ma2_at	9	1	20	20	18.045	1.45	0	0 9.0	146 P
X87237_at	13	2	20	20	18.065	2.65	1	0 6.5	146 P
Z14244_at	10	1	20	20	18.050	1.75	0	0 10.0	145 P
X74295_at									

Side 4

Normal urothelium C									
X89750_at	14	0	20	20	18 0.70	3.67	1	0 Inf	145 P
U68233_at	8	2	20	20	18 0.40	1.71	0	0 4.0	144 P
U72517_at	9	2	20	20	18 0.45	1.34	0	0 4.5	144 P
X03934_at	10	0	20	20	18 0.50	2.02	0	0 Inf	143 P
U70735_at	12	0	20	20	18 0.60	1.96	0	0 Inf	143 P
U78524_at	10	2	20	20	18 0.50	1.67	0	0 5.0	143 P
X57398_at	9	1	20	20	18 0.45	2.09	0	0 9.0	138 P
U87459_at	7	2	20	20	18 0.35	1.33	0	0 3.5	137 P
X04366_at	10	3	20	20	18 0.50	2.02	0	0 3.3	137 P
Y00815_at	10	1	20	20	18 0.50	2.29	0	0 10.0	137 P
AFFX-HUMISGF3A/M97935_3_a	10	1	20	20	18 0.50	1.69	0	0 10.0	135 P
U79287_at	8	1	20	20	18 0.40	1.91	0	0 8.0	135 P
X12451_at	13	0	20	20	17 0.65	2.95	1	0 Inf	135 P
Z49099_at	8	1	20	20	18 0.40	1.89	0	0 8.0	134 P
X06409_at	11	2	20	20	18 0.55	1.38	0	0 5.5	133 P
X69433_at	8	2	20	20	18 0.40	1.33	0	0 4.0	133 P
U75968_at	8	1	20	20	18 0.40	1.15	0	0 8.0	132 P
L11066_at	9	2	20	20	18 0.45	1.09	0	0 4.5	132 P
X62744_at	11	3	20	20	17 0.55	1.93	0	0 3.7	131 P
U89336_cds1_at	8	1	20	20	18 0.40	1.73	0	0 8.0	130 P
U90907_at	9	2	20	20	18 0.45	1.38	0	0 4.5	130 P
X82434_at	9	0	20	20	17 0.45	1.38	0	0 Inf	130 P
X82200_at	9	3	20	20	18 0.45	2.01	1	0 3.0	129 P
X85373_at	10	2	20	20	18 0.50	1.40	0	0 5.0	129 P
Z47727_at	9	0	20	20	18 0.45	1.96	0	0 Inf	129 P
X71129_at	9	1	20	20	17 0.45	1.45	0	0 9.0	127 P
U85193_at	10	1	20	20	18 0.50	2.01	0	0 10.0	126 P
X76534_at	14	1	20	20	18 0.70	3.70	0	1 14.0	125 P
Z71460_at	8	2	20	20	18 0.40	1.42	0	0 4.0	125 P
U81556_at	8	1	20	20	17 0.40	1.50	0	0 8.0	124 P
U68063_at	10	1	20	20	18 0.50	3.10	2	0 10.0	123 P
X82895_at	7	0	20	20	18 0.35	1.31	0	0 Inf	123 P
X74262_at	14	2	20	20	18 0.70	3.68	3	0 7.0	120 P
Z56281_at	7	1	20	20	18 0.35	1.17	0	0 7.0	120 P
X77794_at	16	2	20	20	17 0.80	3.79	1	0 8.0	119 P
AFFX-Blob-3_at	8	2	20	20	18 0.40	1.05	0	0 4.0	118 P
X54232_at	9	0	20	20	17 0.45	1.44	0	0 Inf	118 P
U78793_at	8	2	20	20	18 0.40	1.81	0	0 4.0	115 P
X80692_at	10	1	20	20	18 0.50	2.36	1	0 10.0	115 P
X98311_at	9	1	20	20	18 0.45	1.43	0	0 9.0	113 P
X16316_at	8	2	20	20	18 0.40	0.98	0	0 4.0	111 P
X94612_at	10	3	20	20	18 0.50	1.80	0	0 3.3	111 P
X99728_at	11	2	20	20	18 0.55	1.92	0	0 5.5	110 P
X59405_at	12	1	20	20	18 0.60	2.86	0	0 12.0	109 P
X92896_at	9	3	20	20	17 0.45	1.52	0	0 3.0	108 P
X15187_at	13	1	20	20	18 0.65	4.02	1	0 13.0	107 P
U89278_at	8	2	20	20	17 0.45	2.15	0	0 4.5	106 P
X62055_at	9	2	20	20	17 0.40	0.91	0	0 4.0	105 P
X68277_at	8	2	20	20	17 0.45	1.53	0	0 9.0	105 P
X74008_at	11	2	20	20	18 0.55	1.64	0	0 5.5	105 P
U78556_at	11	1	20	20	17 0.55	2.21	0	0 11.0	105 P
U89336_cds3_at	9	1	20	20	18 0.45	1.41	0	0 9.0	104 P
	9	0	20	20	17 0.45	1.26	0	0 Inf	104 P

Side 5

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Normal urothelium C									
X69141_at	12	2	20	20	17 0.60	2.35	0	0.6.0	104 P
X76180_at	8	1	20	20	18 0.40	1.39	0	0.8.0	104 P
U91932_at	9	1	20	20	17 0.45	1.82	0	0.9.0	103 P
Z69720_at	9	2	20	20	17 0.45	1.15	0	0.4.5	101 P
U91930_at	11	1	20	20	18 0.55	2.15	0	0 0.11.0	100 P
V01512_mal_at	10	1	20	20	18 0.50	1.73	0	0 0.10.0	100 P
Z48042_at	10	2	20	20	18 0.50	1.74	0	0.5.0	99 P
X75962_at	8	1	20	20	18 0.40	1.50	0	0.8.0	98 P
X84740_at	7	2	20	20	18 0.35	1.33	0	0.3.5	98 P
U79241_at	10	3	20	20	17 0.50	2.01	0	0.3.3	97 P
X98411_at	6	1	20	20	18 0.40	1.35	0	0.8.0	97 P
X79781_at	11	0	20	20	18 0.55	1.58	0	0.1nf	96 P
U65932_at	7	0	20	20	17 0.35	1.22	0	0.1nf	95 P
X75304_at	7	0	20	20	18 0.35	1.21	0	0.1nf	95 P
Z37166_at	10	1	20	20	17 0.50	1.32	0	0 0.10.0	95 P
X61123_at	12	1	20	20	17 0.60	2.74	1	0.12.0	94 P
U90426_at	9	0	20	20	18 0.45	1.96	1	0.1nf	93 P
X94754_at	9	0	20	20	18 0.45	1.46	0	0.1nf	93 P
X99585_at	9	2	20	20	18 0.45	1.19	0	0.4.5	93 P
X12791_at	9	3	20	20	18 0.45	1.69	1	0.3.0	92 P
U86602_at	8	2	20	20	18 0.40	1.23	0	0.4.0	91 P
Z47087_at	12	1	20	20	17 0.60	1.95	0	0.12.0	89 P
U67963_at	7	2	20	20	18 0.35	1.81	0	0.3.5	87 P
Z15114_at	10	2	20	20	18 0.50	1.12	0	0.5.0	87 P
AFFX-HUMRGE/M10098_5_at	10	1	20	20	17 0.50	2.34	1	0.10.0	85 P
X57522_at	8	2	20	20	18 0.40	1.13	0	0.4.0	85 P
Y08915_at	9	2	20	20	18 0.45	0.93	0	1.4.5	85 P
U88629_at	9	2	20	20	17 0.45	1.88	0	0.4.5	84 P
X61100_mal_at	10	0	20	20	18 0.50	2.11	0	0.1nf	84 P
X91247_at	10	2	20	20	18 0.50	1.59	0	0.5.0	84 P
Y07867_at	9	3	20	20	18 0.45	1.70	0	0.3.0	84 P
X76538_at	7	2	20	20	18 0.35	1.88	0	0.3.5	82 P
X82103_at	10	1	20	20	18 0.50	1.66	0	0.10.0	82 P
U72514_at	8	2	20	20	18 0.40	1.89	0	0.4.0	81 P
X82153_at	13	1	20	20	18 0.65	2.46	0	0.13.0	81 P
X06614_at	8	2	20	20	18 0.40	1.41	1	0.4.0	80 P
Z68747_at	7	2	20	20	18 0.35	1.32	0	0.3.5	80 P
U72508_at	7	0	20	20	18 0.35	1.06	0	0.1nf	79 P
X07024_at	9	2	20	20	18 0.45	2.76	2	0.4.5	78 P
Y13115_at	9	2	20	20	18 0.45	1.27	0	0.4.5	78 P
U69645_at	7	2	20	20	18 0.35	1.57	1	0.3.5	76 P
X63469_at	11	3	20	20	18 0.55	1.93	0	0.3.7	75 P
X76057_at	8	1	20	20	18 0.40	0.98	0	0.8.0	75 P
Z29083_at	7	1	20	20	17 0.35	1.39	0	0.7.0	73 P
X80497_at	8	2	20	20	18 0.40	1.62	1	0.4.0	72 P
Z22551_at	9	2	20	20	18 0.45	1.99	0	0.4.5	72 P
U77643_at	8	2	20	20	18 0.40	0.96	0	0.4.0	71 P
U90919_at	13	3	20	20	18 0.65	2.64	3	1.4.3	71 P
X02530_at	7	1	20	20	18 0.35	1.63	0	0.7.0	71 P
X05276_at	11	3	20	20	18 0.55	1.54	1	0.3.7	71 P
X67155_at	10	3	20	20	18 0.50	1.51	1	0.3.3	71 P
U83463_at	11	1	20	20	17 0.55	2.14	1	0.11.0	69 P
Z70219_at	7	1	20	20	18 0.35	1.77	0	0.7.0	69 P

Normal urothelium C																			
X73079_at	20	20	20	20	20	20	20	20	20	17	0.40	1.14	0	0	0.40	0.40	68 P	68 P	68 P
Z24725_at	20	20	20	20	20	20	20	20	20	18	0.40	1.83	1	1	0.80	0.80	68 P	68 P	68 P
X36531_at	20	20	20	20	20	20	20	20	20	18	0.45	1.96	0	0	1.30	1.30	67 P	67 P	67 P
X84709_at	20	20	20	20	20	20	20	20	20	18	0.50	1.50	0	0	0.10.0	0.10.0	66 P	66 P	66 P
X95740_ma2_at	20	20	20	20	20	20	20	20	20	18	0.40	1.27	0	0	0.40	0.40	66 P	66 P	66 P
X80910_at	20	20	20	20	20	20	20	20	20	18	0.45	2.08	1	1	0.45	0.45	65 P	65 P	65 P
X83461_at	20	20	20	20	20	20	20	20	20	18	0.40	1.88	1	1	0.80	0.80	65 P	65 P	65 P
X10506_at	20	20	20	20	20	20	20	20	20	17	0.45	2.85	1	1	0.1nf	0.1nf	65 P	65 P	65 P
X235491_at	20	20	20	20	20	20	20	20	20	17	0.40	1.14	0	0	0.40	0.40	64 P	64 P	64 P
X81003_at	20	20	20	20	20	20	20	20	20	18	0.45	1.85	1	1	0.1nf	0.1nf	63 P	63 P	63 P
X04287_at	20	20	20	20	20	20	20	20	20	17	0.50	1.80	1	1	0.50	0.50	63 P	63 P	63 P
X63753_at	20	20	20	20	20	20	20	20	20	17	0.45	1.90	1	1	0.90	0.90	62 P	62 P	62 P
X78274_at	20	20	20	20	20	20	20	20	20	18	0.55	2.73	2	2	0.55	0.55	61 P	61 P	61 P
X96629_ma2_at	20	20	20	20	20	20	20	20	20	17	0.40	1.49	1	1	0.40	0.40	60 P	60 P	60 P
X83368_at	20	20	20	20	20	20	20	20	20	18	0.55	2.01	2	2	0.37	0.37	59 P	59 P	59 P
Z50853_at	20	20	20	20	20	20	20	20	20	18	0.35	0.92	0	0	0.1nf	0.1nf	58 P	58 P	58 P
AFFX-M27830_5_at	20	20	20	20	20	20	20	20	20	18	0.40	1.43	0	0	0.40	0.40	57 P	57 P	57 P
X83378_at	20	20	20	20	20	20	20	20	20	18	0.45	1.76	1	1	0.30	0.30	56 P	56 P	56 P
X79265_at	20	20	20	20	20	20	20	20	20	18	0.45	0.98	0	0	0.40	0.40	56 P	56 P	56 P
X02612_at	20	20	20	20	20	20	20	20	20	18	0.45	1.57	1	1	0.30	0.30	55 P	55 P	55 P
X96586_at	20	20	20	20	20	20	20	20	20	18	0.55	2.67	2	2	0.37	0.37	55 P	55 P	55 P
X98263_at	20	20	20	20	20	20	20	20	20	17	0.35	1.32	1	1	0.70	0.70	54 P	54 P	54 P
X54941_at	20	20	20	20	20	20	20	20	20	18	0.35	0.92	0	0	0.1nf	0.1nf	54 P	54 P	54 P
X78313_at	20	20	20	20	20	20	20	20	20	17	0.45	1.03	0	0	0.90	0.90	54 P	54 P	54 P
X90651_at	20	20	20	20	20	20	20	20	20	18	0.45	1.70	1	1	1.90	1.90	52 P	52 P	52 P
X65873_at	20	20	20	20	20	20	20	20	20	17	0.50	1.71	0	0	0.33	0.33	51 P	51 P	51 P
D00860_at	20	20	20	20	20	20	20	20	20	18	0.45	1.05	0	0	0.80	0.80	49 P	49 P	49 P
X92088_at	20	20	20	20	20	20	20	20	20	18	0.40	1.56	0	0	1.70	1.70	48 P	48 P	48 P
X68742_at	20	20	20	20	20	20	20	20	20	18	0.35	1.11	0	0	0.40	0.40	48 P	48 P	48 P
X92396_at	20	20	20	20	20	20	20	20	20	18	0.50	2.18	3	3	0.10.0	0.10.0	47 P	47 P	47 P
X59841_at	20	20	20	20	20	20	20	20	20	18	0.40	1.44	0	0	0.40	0.40	47 P	47 P	47 P
X61118_ma1_at	20	20	20	20	20	20	20	20	20	18	0.55	2.36	2	2	0.1nf	0.1nf	47 P	47 P	47 P
X12711_at	20	20	20	20	20	20	20	20	20	18	0.45	1.00	1	1	1.45	1.45	46 P	46 P	46 P
X63679_at	20	20	20	20	20	20	20	20	20	18	0.45	1.37	0	0	0.30	0.30	46 P	46 P	46 P
X85372_at	20	20	20	20	20	20	20	20	20	18	0.40	1.84	0	0	0.40	0.40	46 P	46 P	46 P
X87212_at	20	20	20	20	20	20	20	20	20	18	0.40	1.73	0	0	0.40	0.40	45 P	45 P	45 P
X76732_at	20	20	20	20	20	20	20	20	20	18	0.40	1.22	1	1	0.40	0.40	45 P	45 P	45 P
X79242_at	20	20	20	20	20	20	20	20	20	18	0.45	2.45	2	2	0.90	0.90	45 P	45 P	45 P
X79273_at	20	20	20	20	20	20	20	20	20	17	0.40	1.90	0	0	0.40	0.40	43 P	43 P	43 P
X02596_at	20	20	20	20	20	20	20	20	20	18	0.40	1.59	1	1	0.40	0.40	43 P	43 P	43 P
X53586_ma1_at	20	20	20	20	20	20	20	20	20	18	0.40	1.38	0	0	1.80	1.80	40 P	40 P	40 P
X66669_at	20	20	20	20	20	20	20	20	20	18	0.45	1.19	0	0	0.45	0.45	40 P	40 P	40 P
X77129_at	20	20	20	20	20	20	20	20	20	18	0.50	1.39	0	0	0.50	0.50	39 P	39 P	39 P
X84194_at	20	20	20	20	20	20	20	20	20	18	0.45	2.24	2	2	0.90	0.90	38 P	38 P	38 P
Z24724_at	20	20	20	20	20	20	20	20	20	18	0.45	1.48	0	0	0.90	0.90	37 P	37 P	37 P
X73191_at	20	20	20	20	20	20	20	20	20	17	0.40	0.99	0	0	1.80	1.80	36 P	36 P	36 P
X69336_cd56_at	20	20	20	20	20	20	20	20	20	18	0.45	0.93	0	0	0.45	0.45	36 P	36 P	36 P
X55544_at	20	20	20	20	20	20	20	20	20	18	0.40	1.33	0	0	0.80	0.80	36 P	36 P	36 P
X82207_at	20	20	20	20	20	20	20	20	20	18	0.35	1.25	1	1	0.70	0.70	36 P	36 P	36 P
X96752_at	20	20	20	20	20	20	20	20	20	18	0.45	1.39	2	2	0.45	0.45	36 P	36 P	36 P
X97544_at	20	20	20	20	20	20	20	20	20	18	0.45	2.38	2	2	0.1nf	0.1nf	36 P	36 P	36 P
X07701_at	20	20	20	20	20	20	20	20	20	18	0.40	1.16	0	0	0.1nf	0.1nf	36 P	36 P	36 P

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Normal urothelium D

Gene name	Pos Fractl Log Avg	Pos/Neg	Avg Diff	Abs Call
hum_alu_at	0.93	Under	19333 P	
L04483_s_at	1.00	Under	11710 P	
M63438_s_at	0.94	Under	8316 P	
AFFX-CreX-3_at	1.00	Under	7387 P	
M14199_s_at	1.00	Under	7240 P	
M31520_rna1_s_at	1.00	Under	7095 P	
D13413_rna1_s_at	0.94	Under	6543 P	
J04617_s_at	0.94	Under	6479 P	
J00105_s_at	1.00	Under	6165 P	
HC2815-HT4023_s_at	0.95	Under	6034 P	
AFFX-CreX-5_at	1.00	Under	5719 P	
U06155_s_at	0.86	Under	5581 P	
HC1428-HT11428_s_at	0.90	Under	5284 P	
M10277_s_at	0.90	Under	5189 P	
X52426_s_at	0.95	Under	5075 P	
M25079_s_at	0.75	Under	4613 P	
HC2815-HT2931_at	1.00	Under	4370 P	
X57351_s_at	1.00	Under	4215 P	
AFFX-HSAC07/X00351_3_at	0.95	Under	4111 P	
U43901_rna1_s_at	0.90	Under	4088 P	
M36072_at	0.75	Under	3875 P	
AFFX-HUNGAPDH/M33197_3_a0.95	0.95	Under	3815 P	
V00594_s_at	1.00	Under	3716 P	
X69554_at	0.95	Under	3615 P	
S71043_rna1_s_at	0.80	Under	3097 P	
D49824_s_at	1.00	Under	3076 P	
Z49148_s_at	1.00	Under	2957 P	
X17093_at	0.60	Under	2844 P	
S82297_at	0.95	Under	2759 P	
AFFX-BioDn-3_at	0.75	Under	2730 P	
U68105_s_at	0.95	Under	2639 P	
M34516_at	1.00	Under	2613 P	
M55409_s_at	0.85	Under	2532 P	
X98482_f_at	0.33	Under	2448 P	
X03689_s_at	1.00	Under	2419 P	
HC658-HT658_f_at	0.73	Under	2332 P	
X01677_f_at	0.85	Under	2281 P	
M26708_s_at	1.00	Under	2172 P	
D32129_f_at	0.95	Under	1884 P	
M14483_rna1_s_at	0.80	Under	1837 P	
X51345_at	0.75	Under	1817 P	
HC3991-HT4261_f_at	0.45	Under	1796 P	
M34516_f_at	0.90	Under	1747 P	
X00351_f_at	0.91	Under	1737 P	
D86974_at	0.85	Under	1677 P	
AFFX-HSAC07/X00351_M_at	0.75	Under	1620 P	
HC3342-HT3519_s_at	0.89	Under	1617 P	
M55098_s_at	0.65	Under	1610 P	
HC3431-HT3616_s_at	0.85	Under	1529 P	

Normal urothelium D

HG417-HT417_s_at	0.90	5.16	Undef	1481 P
HG2147-HT2217_at	0.83	1.76	5.0	1428 P
M33600_f_at	0.80	3.73	Undef	1395 P
X99133_at	0.60	2.86	12.0	1351 P
U57341_f_at	1.00	4.39	Undef	1344 P
S54005_s_at	0.80	4.83	Undef	1309 P
J04152_ma1_s_at	0.90	5.26	18.0	1291 P
M13560_s_at	0.80	4.20	16.0	1286 P
M24485_s_at	0.65	3.17	Undef	1234 P
HG3597-HT3800_f_at	0.80	4.54	18.0	1148 P
M12125_at	0.65	3.02	13.0	1144 P
J03801_f_at	0.90	5.19	Undef	1137 P
HG1980-HT2023_at	0.45	2.42	Undef	1132 P
M87789_s_at	0.75	2.57	15.0	1078 P
X04347_s_at	0.90	5.03	Undef	1076 P
X14008_ma1_f_at	0.75	4.95	15.0	1072 P
S75256_s_at	0.80	3.92	16.0	1069 P
M94880_f_at	0.50	2.24	Undef	1061 P
M19311_s_at	0.81	5.08	13.0	1040 P
HG1515-HT1515_f_at	0.75	4.64	15.0	1005 P
AFFX-HSAC07/X00351_5_at	0.80	3.09	16.0	958 P
J03077_s_at	0.65	3.77	13.0	925 P
X12671_ma1_at	0.90	4.19	Undef	917 P
M14328_s_at	0.75	3.54	7.5	885 P
X74929_s_at	0.65	2.81	Undef	869 P
L11672_at	0.50	2.21	Undef	855 P
U05861_at	0.70	3.82	14.0	850 P
M26730_s_at	0.85	4.45	8.5	838 P
Z19554_s_at	0.78	4.15	14.0	827 P
AFFX-HUMGAPDH/M33197_M_0.60	0.60	2.75	6.0	802 P
M19045_f_at	0.75	5.50	15.0	794 P
AFFX-HSAC07/X00351_3_s_at	0.75	3.50	Undef	779 P
HG2815-HT2931_s_at	0.93	4.98	Undef	767 P
U70439_s_at	0.75	4.30	Undef	766 P
X56681_s_at	0.65	2.68	6.5	766 P
Z48501_s_at	0.74	3.63	Undef	748 P
X12876_s_at	0.70	4.75	14.0	745 P
HG3576-HT3779_f_at	0.65	2.88	6.5	734 P
Z69043_s_at	0.70	3.45	7.0	722 P
HG2915-HT3059_f_at	0.65	2.34	Undef	720 P
M11313_s_at	0.65	3.19	13.0	717 P
M26311_s_at	0.63	2.85	12.0	686 P
AFFX-BioOn-5_at	0.80	3.30	16.0	663 P
HG2917-HT3061_f_at	0.60	2.11	Undef	663 P
U04241_at	0.45	2.22	9.0	659 P
D17793_at	0.70	4.00	14.0	650 P
M62403_s_at	0.65	2.40	Undef	648 P
HG3236-HT3413_f_at	0.50	2.18	10.0	635 P
L33075_at	0.55	2.57	Undef	634 P
X57809_s_at	0.58	2.03	Undef	629 P
Z49107_s_at	0.45	1.28	4.5	623 P

Normal urothelium D

AFFX-HUMGAPDH/M33197_s_a0.75	4.14	15.0	622 P
U48705_rna1_s_at	2.63	3.7	610 P
X03068_f_at	2.29	24.0	606 P
L02326_f_at	2.32	3.7	566 P
AJ000099_s_at	2.08	9.0	546 P
M21142_cd52_s_at	0.65	2.18	546 P
Z15115_at	0.80	3.3	543 P
X56841_at	0.50	10.0	540 P
AFFX-BioC-5_at	0.65	2.87	537 P
L09209_s_at	0.65	3.77	537 P
HG4264-HT4534_s_at	0.78	4.39	530 P
V00599_s_at	0.55	2.24	528 P
X04654_s_at	0.60	2.30	488 P
L40397_at	0.70	2.78	487 P
M96995_s_at	0.40	1.58	470 P
AFFX-BioC-3_at	0.60	2.22	459 P
M83667_rna1_s_at	0.75	3.14	444 P
D00749_s_at	0.47	1.30	438 P
U88898_f_at	0.36	1.59	422 P
HG1322-HT5143_s_at	0.70	3.87	415 P
U72649_at	0.65	2.87	412 P
U00947_s_at	0.85	4.51	403 P
M16336_s_at	0.55	2.18	401 P
X04470_s_at	0.37	2.25	396 P
M65292_s_at	0.65	2.96	394 P
HG688-HT688_f_at	0.60	2.11	390 P
HG371-HT26388_s_at	0.54	2.30	380 P
M16342_at	0.55	2.06	374 P
X58072_at	0.50	2.90	373 P
X57351_at	0.50	2.13	369 P
M69013_at	0.60	2.78	368 P
Z26491_s_at	0.75	3.48	361 P
M30448_s_at	0.55	2.08	357 P
L49380_at	0.45	1.37	354 P
U90552_s_at	0.58	3.90	347 P
HG3076-HT3238_s_at	0.60	2.99	346 P
X85116_rna1_s_at	0.55	2.08	331 P
D17408_s_at	0.50	2.31	325 P
J02871_s_at	0.60	2.46	319 P
M57466_s_at	0.50	2.81	312 P
K02405_f_at	0.35	1.30	309 P
M23323_s_at	0.55	1.87	309 P
L33930_s_at	0.50	1.68	307 P
X04526_at	0.55	2.22	305 P
Z35402_rna1_s_at	0.70	3.12	305 P
Y00264_at	0.65	3.15	302 P
L00389_f_at	0.50	1.73	301 P
M12959_s_at	0.35	2.34	295 P
X15729_s_at	0.70	3.92	295 P
D78577_s_at	0.60	2.40	291 P
M16276_at	0.50	1.87	285 P

Side 3

Normal urothelium D

J05582_s_at	0.50	1.55	Undef	283 P
U08021_at	0.50	1.84	10.0	275 P
M97935_s_at	0.60	2.49	4.0	273 P
D79206_s_at	0.40	1.26	Undef	270 P
X01703_at	0.65	2.91	Undef	267 P
J04093_s_at	0.70	4.37	Undef	265 P
X17567_s_at	0.45	1.85	3.0	261 P
HG4535-HT4940_s_at	0.35	1.29	7.0	259 P
L24774_s_at	0.45	1.63	4.5	259 P
M58525_s_at	0.40	1.38	8.0	259 P
X14684_s_at	0.50	1.79	5.0	258 P
M37457_at	0.50	1.93	Undef	257 P
U49835_s_at	0.60	2.17	Undef	257 P
X94563_xp12_r_at	0.33	1.35	Undef	255 P
M13690_s_at	0.50	2.07	Undef	252 P
S40719_s_at	0.50	1.63	3.3	251 P
X05130_s_at	0.58	1.95	11.0	247 P
U50079_s_at	0.60	2.55	3.0	243 P
AC002045_xp12_s_at	0.55	2.10	11.0	231 P
M10942_at	0.45	2.13	3.0	228 P
D42040_s_at	0.40	1.08	4.0	224 P
L76517_at	0.35	1.27	7.0	221 P
U32986_s_at	0.40	1.48	8.0	218 P
X52979_rna1_s_at	0.55	2.08	11.0	218 P
X53296_s_at	0.55	2.54	5.5	217 P
X90846_at	0.60	1.90	Undef	214 P
AFFX-HUMISGF3A/M97935_3_a.65	0.65	3.14	Undef	209 P
L05187_at	0.45	1.97	9.0	209 P
X65965_s_at	0.67	2.90	Undef	209 P
S50017_s_at	0.55	2.17	5.5	208 P
X72727_at	0.55	1.95	Undef	204 P
X74874_rna1_s_at	0.45	2.13	9.0	203 P
J03805_s_at	0.50	3.17	9.0	202 P
X55037_s_at	0.55	1.49	3.7	201 P
HG4541-HT4946_s_at	0.61	1.85	3.7	197 P
U79528_s_at	0.50	1.17	Undef	195 P
Z49835_s_at	0.50	3.00	5.0	195 P
U83598_at	0.50	1.64	Undef	191 P
L22524_s_at	0.50	2.89	9.0	190 P
M93651_at	0.60	2.33	Undef	190 P
U36341_rna1_at	0.35	1.33	3.5	188 P
M19267_s_at	0.63	2.37	6.0	186 P
U07808_s_at	0.55	2.51	3.7	185 P
M34996_s_at	0.60	2.17	12.0	184 P
X77588_s_at	0.50	1.90	3.3	184 P
L12711_s_at	0.47	1.69	4.5	181 P
S82447_s_at	0.35	1.11	7.0	180 P
U09587_at	0.65	2.63	6.5	178 P
S69272_s_at	0.45	1.49	3.0	177 P
X62083_s_at	0.50	1.18	5.0	177 P
J03242_s_at	0.35	1.56	7.0	172 P

Side 4

Normal urothelium D

AB006781_s_at	0.35	1.23	Undef	171 P
L42583_f_at	0.50	1.38	Undef	169 P
X98296_at	0.35	0.96	7.0	169 P
U28014_at	0.60	3.02	Undef	168 P
S80437_s_at	0.45	1.55	9.0	166 P
S82597_ma1_s_at	0.50	1.67	10.0	166 P
U16799_s_at	0.60	2.36	4.0	163 P
X57152_ma1_s_at	0.45	1.57	4.5	160 P
X07438_s_at	0.63	3.50	Undef	159 P
AFFX-HUMRGE/M10098_5_at	0.55	2.14	5.5	158 P
D00408_s_at	0.45	1.41	Undef	156 P
M28213_s_at	0.65	1.93	6.5	156 P
M82843_s_at	0.45	1.62	9.0	154 P
Z11899_s_at	0.40	1.32	4.0	154 P
X73358_s_at	0.47	1.25	4.5	153 P
U77846_ma1_s_at	0.40	1.93	4.0	151 P
X05855_s_at	0.53	2.84	8.0	143 P
M27394_s_at	0.45	1.60	4.5	142 P
U61734_s_at	0.47	1.40	3.0	140 P
Z25521_s_at	0.40	1.23	4.0	140 P
X83416_s_at	0.55	2.60	5.5	139 P
X52022_at	0.45	2.00	Undef	138 P
U22431_s_at	0.50	2.19	5.0	135 P
HG2090.HT2152_s_at	0.42	1.54	8.0	132 P
L14778_s_at	0.58	2.72	Undef	132 P
D83174_s_at	0.40	1.41	Undef	131 P
M13829_s_at	0.45	1.75	3.0	131 P
U41654_at	0.60	1.95	12.0	129 P
U61397_s_at	0.45	1.61	9.0	129 P
M20867_s_at	0.53	2.56	Undef	127 P
Y00787_s_at	0.55	2.37	11.0	127 P
Y00451_s_at	0.45	1.77	4.5	125 P
L15189_s_at	0.50	2.51	5.0	124 P
X06700_s_at	0.50	1.59	3.3	124 P
HG2743.HT2846_s_at	0.40	0.91	8.0	123 P
Y00097_s_at	0.50	1.48	3.3	123 P
D83260_s_at	0.47	1.60	4.5	121 P
HG4334.HT4604_s_at	0.35	1.16	7.0	120 P
Z47055_s_at	0.35	1.65	3.5	120 P
X02761_s_at	0.55	1.65	5.5	119 P
X89399_s_at	0.45	0.97	4.5	118 P
D78132_s_at	0.60	1.92	3.0	117 P
D28473_s_at	0.70	2.95	7.0	115 P
S57212_s_at	0.40	1.35	8.0	115 P
HG4557.HT4962_r_at	0.80	1.92	Undef	114 P
U61276_s_at	0.50	2.19	10.0	114 P
U60061_at	0.60	2.43	12.0	113 P
J04130_s_at	0.50	1.66	3.3	110 P
M63838_s_at	0.45	2.03	9.0	110 P
S79219_s_at	0.55	1.48	5.5	109 P
U58046_s_at	0.45	2.81	9.0	109 P

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Normal urothelium D

X03363_s_at	0.35	1.58	3.5	109 P
X76942_s_at	0.60	2.40	6.0	109 P
HG3925-HT4195_at	0.40	1.45	Undef	106 P
M61832_s_at	0.40	1.11	8.0	106 P
U80226_s_at	0.40	1.85	4.0	103 P
X72889_at	0.35	1.53	Undef	103 P
HG3484-HT3678_s_at	0.45	1.66	Undef	99 P
D49372_s_at	0.35	1.28	7.0	97 P
AFEX-M27830_5_at	0.40	1.18	Undef	95 P
S68805_at	0.50	1.96	Undef	95 P
M14745_at	0.50	1.09	10.0	94 P
U06155_at	0.50	1.18	Undef	94 P
Z35085_s_at	0.42	2.60	4.0	93 P
U44799_s_at	0.40	1.60	4.0	92 P
X62534_s_at	0.60	2.49	4.0	92 P
M33684_s_at	0.35	1.42	3.5	91 P
U73936_at	0.45	1.01	Undef	90 P
X85137_s_at	0.40	1.80	8.0	90 P
HG1400-HT1400_s_at	0.50	2.62	10.0	89 P
X90530_at	0.55	2.41	3.7	88 P
X82368_at	0.55	2.41	5.5	88 P
D26535_s_at	0.45	1.84	4.5	87 P
HG4593-HT4998_at	0.50	1.39	3.3	86 P
U41740_at	0.45	2.35	9.0	86 P
X12530_s_at	0.42	1.23	Undef	86 P
AFEX-HUMRGE/M10098_M_at	0.45	1.35	4.5	85 P
U26424_at	0.45	2.48	Undef	84 P
X57809_at	0.50	1.27	4.0	84 P
HG210-HT210_s_at	0.60	2.00	6.0	83 P
HG2981-HT3125_s_at	0.50	1.51	5.0	82 P
U30827_s_at	0.50	1.22	5.0	82 P
M34715_at	0.45	1.39	Undef	80 P
D89377_s_at	0.38	0.97	Undef	76 P
L12760_s_at	0.42	1.78	8.0	75 P
M24069_at	0.45	2.05	3.0	75 P
L43579_s_at	0.40	1.48	3.0	74 P
U01691_s_at	0.35	1.37	Undef	74 P
L06634_s_at	0.53	2.30	3.3	71 P
U19495_s_at	0.65	2.98	4.3	71 P
HG2148-HT2218_f_at	0.35	1.33	3.5	70 P
L25931_s_at	0.55	1.98	11.0	69 P
U20536_s_at	0.45	1.79	Undef	69 P
U77846_mal_at	0.40	1.34	Undef	68 P
U19147_s_at	0.55	3.75	11.0	66 P
L18877_f_at	0.35	1.26	Undef	64 P
M90356_f_at	0.40	0.92	4.0	63 P
D00003_s_at	0.42	1.46	Undef	62 P
AF012024_s_at	0.40	1.35	4.0	60 P
M16652_at	0.50	1.24	Undef	58 P
U09279_at	0.40	2.24	8.0	58 P
L78833_cds1_at	0.40	1.22	8.0	57 P

Normal urothelium D

M24736_s_at	0.45	2.83	Under	57 P
D63861_s_at	0.65	3.10	4.3	56 P
U26173_s_at	0.40	0.93	4.0	55 P
U33632_at	0.40	1.11	4.0	53 P
X70944_s_at	0.40	1.97	4.0	53 P
X03350_at	0.45	0.99	9.0	52 P
U20938_at	0.45	1.36	3.0	50 P
X81625_at	0.45	1.93	4.5	48 P
HC36-H14101_s_at	0.33	1.47	3.0	47 P
U47077_at	0.40	1.22	Under	47 P
X59244_l_at	0.35	1.32	3.5	47 P
X92493_s_at	0.45	2.05	3.0	47 P
U49020_cds2_s_at	0.35	1.59	3.5	46 P
U72936_s_at	0.35	1.32	7.0	45 P
M14758_at	0.35	1.45	3.5	42 P
S76853_s_at	0.45	1.56	4.5	42 P
M27093_s_at	0.50	1.42	Under	40 P
M64752_at	0.45	1.07	4.5	38 P
X83490_s_at	0.35	1.38	3.5	38 P
D28235_s_at	0.40	1.37	8.0	37 P
X62429_s_at	0.45	1.66	3.0	36 P
X67235_s_at	0.44	1.44	4.0	35 P
X95632_s_at	0.45	1.86	9.0	35 P
M27436_s_at	0.45	1.65	4.5	32 P
J00219_s_at	0.40	1.18	8.0	31 P
M26665_at	0.50	1.48	3.0	27 P
U09716_s_at	0.35	1.84	3.5	25 P
X91196_s_at	0.35	0.95	7.0	22 P

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[illegible]

Accession	Gene	Chromosome	Start	End	Strand	Size (bp)	GC (%)	Exons	Introns	UTR	5'UTR	3'UTR	ORF (aa)	Protein	Function	Ref
D006_2.at	Human plasma (extracellular) mRNA for glutathione peroxidase, complete cds	1	101	902	+	801	34	99	20	20	20	20	34	902	Human plasma (extracellular) mRNA for glutathione peroxidase, complete cds	1
D006_4.at	Human striated smooth muscle gamma-actin gene, 5' flant and	1	100	251	+	151	23	751	20	20	20	20	23	251	Human striated smooth muscle gamma-actin gene, 5' flant and	1
D007_3.at	Human mRNA for hydrogen carrier "protein", a component of an enzyme "complex", glycine synthase (EC 2.1.2.10)	1	103	20	+	117	35	20	64	20	20	20	35	20	Human mRNA for hydrogen carrier "protein", a component of an enzyme "complex", glycine synthase (EC 2.1.2.10)	1
D007_16.at	Human mRNA for tyrosinase (EC 4.99.1.1)	1	152	20	+	136	214	438	184	20	20	20	214	20	Human mRNA for tyrosinase (EC 4.99.1.1)	1
D007_49.at	Human T cell surface antigen CD7 gene	1	152	94	+	119	101	438	184	20	20	20	101	94	Human T cell surface antigen CD7 gene	1
D007_60.at	Human mRNA for proteasome subunit HC3	1	152	308	+	132	251	438	184	20	20	20	251	308	Human mRNA for proteasome subunit HC3	1
D007_61.at	Human mRNA for proteasome subunit HC5	1	152	308	+	132	251	438	184	20	20	20	251	308	Human mRNA for proteasome subunit HC5	1
D007_62.at	Human mRNA for proteasome subunit HC8	1	152	308	+	132	251	438	184	20	20	20	251	308	Human mRNA for proteasome subunit HC8	1
D007_63.at	Human mRNA for proteasome subunit HC9	1	152	308	+	132	251	438	184	20	20	20	251	308	Human mRNA for proteasome subunit HC9	1
D008_60.at	Human mRNA for phosphonate pyrophosphatase synthetase (EC 2.7.6.1) subunit 1	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for phosphonate pyrophosphatase synthetase (EC 2.7.6.1) subunit 1	1
D008_61.at	Human mRNA for long-chain acyl-CoA synthetase	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for long-chain acyl-CoA synthetase	1
D008_62.at	Human mRNA for platelet-activating factor "receptor", complete cds	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for platelet-activating factor "receptor", complete cds	1
D008_63.at	Human mRNA for protein kinase C delta-type	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for protein kinase C delta-type	1
D008_64.at	Human gene for mitochondrial acetyl-CoA thioesterase	1	152	234	+	182	237	152	234	20	20	20	237	152	Human gene for mitochondrial acetyl-CoA thioesterase	1
D008_65.at	Human gene for BDK-1, "protein", complete cds	1	152	234	+	182	237	152	234	20	20	20	237	152	Human gene for BDK-1, "protein", complete cds	1
D008_66.at	Human mRNA for 2-oxoglutarate synthetase, complete cds	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for 2-oxoglutarate synthetase, complete cds	1
D008_67.at	Human mRNA for major structural protein of myelin, complete cds	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for major structural protein of myelin, complete cds	1
D008_68.at	Human mRNA for "CHK-II", complete cds	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for "CHK-II", complete cds	1
D008_69.at	Human mRNA for smooth muscle myosin heavy chain	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for smooth muscle myosin heavy chain	1
D008_70.at	Human mRNA for choline kinase	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for choline kinase	1
D008_71.at	Human mRNA for F1L2-related receptor (F1L2)	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for F1L2-related receptor (F1L2)	1
D008_72.at	Human mRNA for HM74	1	152	234	+	182	237	152	234	20	20	20	237	152	Human mRNA for HM74	1
D008_73.at	Human gene for serotonin 1B "receptor", complete cds	1	152	234	+	182	237	152	234	20	2					

Gene	Accession	Length	GC	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	GC11	GC12	GC13	GC14	GC15	GC16	GC17	GC18	GC19	GC20	GC21	GC22	GC23	GC24	GC25	GC26	GC27	GC28	GC29	GC30	GC31	GC32	GC33	GC34	GC35	GC36	GC37	GC38	GC39	GC40	GC41	GC42	GC43	GC44	GC45	GC46	GC47	GC48	GC49	GC50	GC51	GC52	GC53	GC54	GC55	GC56	GC57	GC58	GC59	GC60	GC61	GC62	GC63	GC64	GC65	GC66	GC67	GC68	GC69	GC70	GC71	GC72	GC73	GC74	GC75	GC76	GC77	GC78	GC79	GC80	GC81	GC82	GC83	GC84	GC85	GC86	GC87	GC88	GC89	GC90	GC91	GC92	GC93	GC94	GC95	GC96	GC97	GC98	GC99	GC100	GC101	GC102	GC103	GC104	GC105	GC106	GC107	GC108	GC109	GC110	GC111	GC112	GC113	GC114	GC115	GC116	GC117	GC118	GC119	GC120	GC121	GC122	GC123	GC124	GC125	GC126	GC127	GC128	GC129	GC130	GC131	GC132	GC133	GC134	GC135	GC136	GC137	GC138	GC139	GC140	GC141	GC142	GC143	GC144	GC145	GC146	GC147	GC148	GC149	GC150	GC151	GC152	GC153	GC154	GC155	GC156	GC157	GC158	GC159	GC160	GC161	GC162	GC163	GC164	GC165	GC166	GC167	GC168	GC169	GC170	GC171	GC172	GC173	GC174	GC175	GC176	GC177	GC178	GC179	GC180	GC181	GC182	GC183	GC184	GC185	GC186	GC187	GC188	GC189	GC190	GC191	GC192	GC193	GC194	GC195	GC196	GC197	GC198	GC199	GC200	GC201	GC202	GC203	GC204	GC205	GC206	GC207	GC208	GC209	GC210	GC211	GC212	GC213	GC214	GC215	GC216	GC217	GC218	GC219	GC220	GC221	GC222	GC223	GC224	GC225	GC226	GC227	GC228	GC229	GC230	GC231	GC232	GC233	GC234	GC235	GC236	GC237	GC238	GC239	GC240	GC241	GC242	GC243	GC244	GC245	GC246	GC247	GC248	GC249	GC250	GC251	GC252	GC253	GC254	GC255	GC256	GC257	GC258	GC259	GC260	GC261	GC262	GC263	GC264	GC265	GC266	GC267	GC268	GC269	GC270	GC271	GC272	GC273	GC274	GC275	GC276	GC277	GC278	GC279	GC280	GC281	GC282	GC283	GC284	GC285	GC286	GC287	GC288	GC289	GC290	GC291	GC292	GC293	GC294	GC295	GC296	GC297	GC298	GC299	GC300	GC301	GC302	GC303	GC304	GC305	GC306	GC307	GC308	GC309	GC310	GC311	GC312	GC313	GC314	GC315	GC316	GC317	GC318	GC319	GC320	GC321	GC322	GC323	GC324	GC325	GC326	GC327	GC328	GC329	GC330	GC331	GC332	GC333	GC334	GC335	GC336	GC337	GC338	GC339	GC340	GC341	GC342	GC343	GC344	GC345	GC346	GC347	GC348	GC349	GC350	GC351	GC352	GC353	GC354	GC355	GC356	GC357	GC358	GC359	GC360	GC361	GC362	GC363	GC364	GC365	GC366	GC367	GC368	GC369	GC370	GC371	GC372	GC373	GC374	GC375	GC376	GC377	GC378	GC379	GC380	GC381	GC382	GC383	GC384	GC385	GC386	GC387	GC388	GC389	GC390	GC391	GC392	GC393	GC394	GC395	GC396	GC397	GC398	GC399	GC400	GC401	GC402	GC403	GC404	GC405	GC406	GC407	GC408	GC409	GC410	GC411	GC412	GC413	GC414	GC415	GC416	GC417	GC418
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[illegible]

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Expressed RNA in Subcutaneous connective tissue, Normal urothelium and Transitional cell carcinoma		293	327	419	300	523	398
D64109	Human mRNA for lbp "family", complete cds	76	60	193	51	20	83
D64110	Human mRNA for lbp "family", complete cds	94	227	356	77	192	251
D64142	Human mRNA for histone "H1x", complete cds	100	114	96	196	152	190
D64154	Human mRNA for M "110.000" "enigma", complete cds	40	42	110	48	56	97
D64156	Human mRNA for ATP binding protein associated with cell "differentiation", partial cds. /gp-D64156 /mype-RNA	20	20	20	20	20	20
D64159	Human mRNA	20	20	20	20	20	20
D67029	Human SEC14L "mRNA", complete cds	20	53	32	20	20	94
D7630	Human mRNA for Doc2 "beta", complete cds	20	20	20	20	20	20
D76430	Human mRNA for Zn "protein", complete cds	20	20	20	20	20	20
D76444	Human Hx-1 "mRNA", complete cds	20	20	20	20	20	20
D78011	Human mRNA for "dihydropyrimidinase", complete cds	20	45	138	64	196	48
D78012	Human mRNA for dihydropyrimidinase related "protein-1", complete cds	269	195	421	284	618	405
D78013	Human adult (34 year old) Male liver mRNA for dihydropyrimidinase related "protein-3", complete cds	77	36	26	20	154	99
D78120	Human adult (34 year old) Male liver mRNA for dihydropyrimidinase related "protein-3", complete cds	167	117	278	303	22	91
D78131	Human mRNA for Ruv "homologue subunit B" (RUB) "gene", partial cds. /gp-D78129 /mype-RNA	203	200	358	282	265	352
D78132	Human mRNA for Ruv "homologue subunit B" (RUB) "gene", partial cds. /gp-D78129 /mype-RNA	319	225	494	257	414	279
D78151	Human mRNA for glycine-rich RNA binding protein "Grip", complete cds	20	43	39	15	20	20
D78156	Human mRNA for 2S proteasome subunit "P2", complete cds	20	20	20	20	20	20
D78275	Human mRNA for nucleotide binding domain "NBD", complete cds	20	20	20	20	20	20
D78330	Human mRNA for testis-specific "TCP20", complete cds	20	20	20	20	20	20
D78333	Human mRNA for testis-specific "TCP20", complete cds	20	20	20	20	20	20
D78335	Human mRNA for 5-terminal region of "ULK", complete cds	2518	2513	3435	2037	1433	3279
D78361	Human mRNA for ornithine decarboxylase "enzyme", ORF 1 and ORF 2	20	35	87	56	129	20
D78367	Human mRNA for K12 "teratin", complete cds	46	20	20	20	20	60
D78514	Human mRNA for ubiquitin-conjugating "enzyme", complete cds	170	291	302	247	316	296
D78577	Human DNA for 14-3-3 protein eta chain	20	20	20	20	20	20
D78596	Human CAD mRNA for multifunctional protein "CAD", complete cds	20	109	50	24	215	95
D78611	Human MEST "mRNA", complete cds	1639	2864	2965	1853	1077	1059
D79205	Human gene for ribosomal protein "L39", complete cds	83	270	348	281	606	81
D79206	Human gene for ribosomal protein "L39", complete cds	20	26	20	20	136	20
D79832	Human mRNA for KIAA0181 "gene", complete cds	45	175	162	132	380	245
D79835	Human mRNA for KIAA0182 "gene", complete cds	20	20	20	20	105	102
D79860	Human mRNA for KIAA0183 "gene", complete cds	99	106	120	72	20	125
D79861	Human mRNA for KIAA0184 "gene", complete cds	20	20	20	20	22	20
D79862	Human mRNA for KIAA0185 "gene", complete cds	20	20	20	20	20	20
D79863	Human mRNA for KIAA0186 "gene", complete cds	41	75	20	20	20	74
D79864	Human mRNA for KIAA0187 "gene", complete cds	27	28	20	20	20	99
D79865	Human mRNA for KIAA0188 "gene", complete cds	92	158	130	127	20	146
D79866	Human mRNA for KIAA0189 "gene", complete cds	20	50	20	20	20	53
D79867	Human mRNA for KIAA0190 "gene", complete cds	71	75	169	40	51	46
D79868	Human mRNA for KIAA0191 "gene", complete cds	111	101	206	82	60	38
D79869	Human mRNA for KIAA0192 "gene", partial cds	25	87	22	53	165	104
D79870	Human mRNA for KIAA0193 "gene", complete cds	45	88	185	80	20	57
D79871	Human mRNA for KIAA0194 "gene", complete cds	20	20	53	20	92	20
D79872	Human mRNA for KIAA0195 "gene", complete cds	44	20	20	43	20	20
D79873	Human mRNA for KIAA0196 "gene", complete cds	87	194	487	217	210	230
D79874	Human mRNA for KIAA0197 "gene", partial cds	20	20	20	20	32	20
D79875	Human mRNA for KIAA0198 "gene", partial cds	45	20	74	20	20	20
D79876	Human mRNA for KIAA0199 "gene", partial cds	27	298	458	324	850	471
D79877	Human mRNA for KIAA0200 "gene", partial cds	86	26	20	20	20	20
D79878	Human mRNA for KIAA0201 "gene", partial cds	93	57	81	20	20	20
D79879	Human mRNA for KIAA0202 "gene", partial cds	80	123	159	51	20	38
D79880	Human mRNA for KIAA0203 "gene", partial cds	20	64	20	59	52	76
D79881	Human mRNA for KIAA0204 "gene", partial cds	20	89	20	21	20	64
D79882	Human mRNA for KIAA0205 "gene", partial cds	20	20	86	20	20	20
D79883	Human mRNA for KIAA0206 "gene", complete cds	20	28	20	20	20	20
D79884	Human mRNA for KIAA0207 "gene", complete cds	69	20	20	20	20	20
D79885	Human mRNA for KIAA0208 "gene", partial cds	82	88	84	20	23	31
D79886	Human mRNA for KIAA0209 "gene", partial cds	82	88	84	20	23	31
D79887	Human mRNA for KIAA0210 "gene", partial cds	65	20	20	20	287	95
D79888	Human kidney mRNA for putative membrane protein with histidine rich charge "clusters", complete cds	132	155	20	82	59	23
D79889	Human B-cell mRNA for a member of the short-chain alcohol dehydrogenase "family", partial cds	53	20	24	20	307	256
D79890	Human ec1 "mRNA", complete cds	118	51	22	20	215	20
D79891	Human mRNA for Na ⁺ -independent neutral and basic amino acid "transporter", complete cds	25	20	20	20	20	20
D79892	Human mRNA for "AMV", complete cds	31	20	20	20	20	20
D79893	Human mRNA for "NBPho1", complete cds	31	20	20	20	20	20

Expressed RNA in Bladder Transitional Cell Carcinomas									
D02345.at	Human mRNA for NB thymosin beta-2, complete cds	25	45	41	20	64	96		
D02346.at	Human mRNA for "HNSPC", complete cds	28	35	20	20	20	28		
D02347.at	Human mRNA for "NeuroD", complete cds	46	20	20	20	20	20		
D02348.at	Human mRNA for 5-enolnucleoside-1-beta-D-ribofuranose-2-epimerase, complete cds	157	258	278	152	86	159		
D03004.at	Human epidermal carcinoma mRNA for ubiquitin-conjugating enzyme E2 similar to Drosophila bendless gene "product", complete cds	141	90	118	47	20	167		
D03017.at	Human mRNA for nuclear protein 2, complete cds	37	20	91	20	20	20		
D03018.at	Human mRNA for nuclear protein 2, complete cds	59	89	139	85	180	200		
D03032.at	Human mRNA for nuclear protein 2, complete cds	21	117	55	43	177	89		
D03174.at	Human mRNA for collagen binding protein 2, complete cds	169	131	438	394	386	147		
D03195.at	Human DNASE1 gene for deoxyribonuclease 1, complete cds	20	20	20	20	20	20		
D03323.at	Human HPC-26 mRNA, complete cds	65	121	158	110	239	123		
D03390.at	ZAK1-4 mRNA in human skin fibroblast, complete cds	88	31	20	20	20	25		
D03407.at	Human mRNA for "cathelin-15", complete cds	190	191	243	153	285	371		
D03542.at	Human mRNA for "p105", complete cds	20	20	25	27	63	27		
D03597.at	Human mRNA for "p105", complete cds	20	20	20	20	20	20		
D03598.at	Human mRNA for "p105", complete cds	52	20	20	20	20	20		
D03599.at	Human mRNA for "p105", complete cds	52	20	20	20	20	20		
D03702.at	Human brain 3UTR of mRNA for neuronal death protein, partial sequence	219	380	20	20	20	179		
D03703.at	Human brain 3UTR of mRNA for neuronal death protein, partial sequence	20	20	23	20	20	20		
D03707.at	Human brain 3UTR of mRNA for neuronal death protein, partial sequence	20	37	51	44	20	20		
D03776.at	Human mRNA for KIAA0191 gene, partial cds	20	20	20	20	20	20		
D03777.at	Human mRNA for KIAA0193 gene, complete cds	20	24	63	20	20	20		
D03778.at	Human mRNA for KIAA0194 gene, partial cds	119	77	90	57	305	74		
D03779.at	Human mRNA for KIAA0195 gene, complete cds	304	243	314	328	559	464		
D03780.at	Human mRNA for KIAA0196 gene, complete cds	72	20	20	20	184	20		
D03781.at	Human mRNA for KIAA0197 gene, partial cds	20	20	59	20	20	20		
D03782.at	Human mRNA for KIAA0199 gene, partial cds	20	20	116	20	304	133		
D03783.at	Human mRNA for KIAA0192 gene, partial cds	20	55	20	20	20	20		
D03784.at	Human mRNA for KIAA0198 gene, partial cds	43	33	20	80	145	97		
D03785.at	Human mRNA for KIAA0200 gene, complete cds	20	29	20	20	20	72		
D03920.at	Human uterine mRNA for KIAA0200 gene, complete cds	47	20	20	20	20	20		
D04107.at	Human VCS-3 mRNA, complete cds	46	123	116	46	229	100		
D04145.at	Human mRNA for Wntless, complete cds	20	27	69	23	20	20		
D04339.at	Human mRNA for "p105", complete cds	20	149	41	50	65	20		
D04376.at	Human mRNA for "p105", complete cds	20	20	20	20	20	20		
D04394.at	Human mRNA for "p105", complete cds	64	88	128	42	181	138		
D04397.at	Human mRNA for "p105", complete cds	35	35	23	46	20	64		
D04398.at	Human mRNA for "p105", complete cds	20	20	20	20	20	20		
D04399.at	Human mRNA for "p105", complete cds	78	20	59	20	20	27		
D04424.at	Human fetal brain mRNA for hyaluronan synthase, complete cds	40	99	76	72	83	20		
D04454.at	Human mRNA for UDP-glucosyl transferase, complete cds	20	20	20	20	108	20		
D04537.at	Human mRNA for "HsMn1", complete cds	20	20	20	20	20	20		
D05131.at	Human mRNA for Myc-associated zinc-finger protein of human "tata", complete cds	83	92	56	56	43	107		
D05181.at	Human mRNA for "HsMn1", complete cds	52	61	89	20	119	47		
D05245.at	Human mRNA for "HsMn1", complete cds	52	61	89	20	119	47		
D05376.at	Human DNA for phosphatidylcholine-specific phospholipase C (PC-C), complete cds	20	52	20	34	109	25		
D05416.at	Human mRNA for "HsMn1", complete cds	20	52	20	34	109	25		
D05423.at	Human mRNA for "HsMn1", complete cds	20	52	20	34	109	25		
D05428.at	Human mRNA for "HsMn1", complete cds	20	52	20	34	109	25		
D05433.at	Human mRNA for "HsMn1", complete cds	20	52	20	34	109	25		
D05437.at	Human mRNA for "HsMn1", complete cds	20	52	20	34	109	25		
D05438.at	Human mRNA for "HsMn1", complete cds	20	52	20	34	109	25		
D05439.at	Human mRNA for "HsMn1", complete cds								

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas											
		48	23	64	48	44	40				
Human mRNA for serine/threonine protein kinase, complete cds		20	20	20	20	20	52				
Human mRNA for "hsc", complete cds		52	63	89	90	69	67				
Human mRNA for KIAA0201 "gene", complete cds		25	106	45	20	20	95				
Human mRNA for KIAA0202 "gene", partial cds		20	20	20	20	20	20				
Human mRNA for KIAA0203 "gene", complete cds		60	36	102	58	20	42				
Human mRNA for KIAA0205 "gene", complete cds		20	37	53	20	23	67				
Human mRNA for KIAA0208 "gene", partial cds		31	41	20	35	20	55				
Human mRNA for KIAA0207 "gene", complete cds		74	91	171	81	81	65				
Human mRNA for KIAA0208 "gene", complete cds		128	20	154	86	20	97				
Human mRNA for KIAA0209 "gene", partial cds		58	20	20	200	20	20				
Human mRNA for KIAA0210 "gene", complete cds		155	215	98	148	189	361				
Human mRNA for KIAA0211 "gene", complete cds		168	80	92	135	255	165				
Human mRNA for KIAA0212 "gene", complete cds		73	41	54	104	319	139				
Human mRNA for KIAA0213 "gene", partial cds		20	20	20	20	20	20				
Human mRNA for KIAA0215 "gene", complete cds		33	41	20	20	48	20				
Human mRNA for KIAA0216 "gene", complete cds		71	20	20	20	20	20				
Human mRNA for KIAA0218 "gene", partial cds		16	138	45	20	20	48				
Human mRNA for KIAA0219 "gene", complete cds		20	20	137	73	427	144				
Human mRNA for KIAA0220 "gene", partial cds		519	1977	4011	2341	4661	4376				
Human mRNA for KIAA0222 "gene", complete cds		20	20	20	20	20	20				
Human mRNA for KIAA0223 "gene", partial cds		91	76	20	62	28	198				
Human mRNA for KIAA0224 "gene", complete cds		20	124	53	20	20	106				
Human mRNA for KIAA0225 "gene", partial cds		66	133	20	55	118	43				
Human mRNA for KIAA0228 "gene", complete cds		59	114	68	60	79	139				
Human mRNA for KIAA0227 "gene", partial cds		20	20	20	20	48	31				
Human mRNA for KIAA0229 "gene", partial cds		34	20	38	39	187	103				
Human mRNA for KIAA0230 "gene", partial cds		52	77	121	64	160	132				
Human mRNA for KIAA0231 "gene", partial cds		66	42	96	32	59	103				
Human mRNA for KIAA0232 "gene", complete cds		43	58	53	20	162	20				
Human mRNA for KIAA0221 "gene", complete cds		151	130	218	178	405	291				
Human (lambda) DNA for immunoglobulin light chain		20	20	20	20	20	20				
Human (lambda) DNA for immunoglobulin light chain		20	20	20	20	20	20				
Human (lambda) DNA for immunoglobulin light chain		23	20	20	20	20	60				
C7 segment gene extracted from Human (lambda) DNA for immunoglobulin light chain		222	270	369	344	176	224				
Human (lambda) DNA for immunoglobulin light chain		94	20	20	20	20	31				
Human mRNA for KIAA0233 "gene", complete cds		157	123	20	78	20	197				
Human mRNA for KIAA0236 "gene", complete cds		24	39	27	20	20	202				
Human mRNA for KIAA0237 "gene", complete cds		20	20	40	109	20	20				
Human mRNA for KIAA0238 "gene", partial cds		26	20	71	54	246	204				
Human mRNA for KIAA0239 "gene", partial cds		20	59	20	24	20	20				
Human mRNA for KIAA0240 "gene", partial cds		28	20	20	20	20	47				
Human mRNA for KIAA0235 "gene", partial cds		49	20	58	28	20	84				
Human mRNA for MAP kinase 3b "complete" cds		81	85	20	20	20	20				
Human carboxylous bone osteoblast mRNA for "GS3955", complete cds		43	85	20	20	49	32				
Human carboxylous bone osteoblast mRNA for "GS3786", complete cds		20	20	37	53	20	20				
Human mRNA for translocation "protein-1", complete cds		20	20	62	20	20	20				
Human carboxylous bone osteoblast mRNA for serin protease with IGF-binding "molit", complete cds		238	131	431	63	20	20				
Human mRNA for "modanase", complete cds		500	311	205	188	254	242				
Human mRNA for "HCS", complete cds		20	44	20	96	30	142				
Human mRNA for KIAA0245 "gene", complete cds		20	20	20	20	20	20				
Human mRNA for KIAA0246 "gene", partial cds		20	20	20	166	64	64				
Human mRNA for KIAA0247 "gene", complete cds		77	23	56	33	48	77				
Human mRNA for KIAA0248 "gene", partial cds		20	89	20	158	44	44				
Human mRNA for KIAA0249 "gene", complete cds		20	28	20	20	20	20				
Human mRNA for KIAA0250 "gene", complete cds		26	36	55	82	102	129				
Human mRNA for KIAA0251 "gene", partial cds		151	127	134	133	235	210				
Human mRNA for KIAA0252 "gene", partial cds		186	134	364	248	343	421				
Human mRNA for KIAA0253 "gene", partial cds		52	22	20	20	20	20				
Human mRNA for KIAA0254 "gene", complete cds		351	22	41	67	40	116				
Human mRNA for KIAA0255 "gene", complete cds		35	20	20	20	20	23				
Human mRNA for KIAA0256 "gene", complete cds		20	20	91	20	161	161				
Human mRNA for KIAA0257 "gene", partial cds		20	20	20	20	20	20				

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Expressed RNA in Subcutaneous Connective Tissue, Normal Uterine and Transitional cell carcinomas									
U06008	Human pyruvate dehydrogenase (EC 1.2.4.1) beta subunit	beta subunit	125	14.7	6.7	138	Human		
U06009	Human AMY2B gene for alpha-amylase		20	20	20	20	Human		
U06010	Human mRNA for DNA binding protein TAXREB87		380	329	248	180	Human		
U06011	Human mRNA for glycoprotein 34 (gp34)		299	44	26	246	Human		
U06012	Human CGMT gene for nonspecific cross-reacting antigen (NCA)		148	266	80	197	Human		
U06013	Human mRNA for collagen alpha 1(V) chain, complete cds		132	100	100	100	Human		
U06014	Human carboxyl phosphate synthetase 1 (EC 6.3.4.16) mRNA		20	20	20	20	Human		
U06015	Human CCG1 mRNA		54	20	20	20	Human		
U06016	yo16002 s1 Soares adult brain N2B51B55Y Homo sapiens cDNA clone 176083 3 similar to gpJ02625 CYTOCHROME P450 11E1 (HUM)		20	20	20	20	Human		
U06017	Serine Kinase Pst-H1		20	20	20	20	Human		
U06018	"Alpase," Na/K-ATPase (transporting), Alpha 1 polypeptide		20	20	20	20	Human		
U06019	Mucin (GlyM22408)		20	20	20	20	Human		
U06020	Bone Morphogenetic Protein 3		20	20	20	20	Human		
U06021	Lamin A Protein (GlyM24732)		20	28	78	201	Human		
U06022	Cystatin D		20	149	62	20	Human		
U06023	Heterogeneous Nuclear Ribonucleoprotein A/B		20	20	20	20	Human		
U06024	Rice-Related C3 Botulinum Toxin Substrate		20	233	341	136	Human		
U06025	Guanine Nucleotide-Binding Protein, Rat, Pans-Oncogene Related		20	140	63	31	Human		
U06026	Ras-Like Protein T21		20	118	20	120	Human		
U06027	Ras-Like Protein T24		20	71	20	117	Human		
U06028	Proliferating Cell Nuclear Antigen, 120 Kds		20	32	206	265	Human		
U06029	FLS6-Binding Protein, All Splice 2		20	84	84	193	Human		
U06030	"Collagen," Type "VI," Alpha "2," All Splices 2		20	115	45	20	Human		
U06031	Lipopolysaccharide-Binding Protein		20	20	20	39	Human		
U06032	Nucleoside Diphosphate Kinase Nm23-H2a		20	20	20	26	Human		
U06033	Colony-Stimulating Factor "1," Macrophage, All Splice 3		20	593	869	878	Human		
U06034	Collagen, Type "IV," Alpha "2," N-Terminus		20	105	127	182	Human		
U06035	"Collagen," Type "II," Alpha 1		20	85	61	241	Human		
U06036	Small Nuclear Ribonucleoprotein, Polypeptide "C," All Splice 2		20	52	20	20	Human		
U06037	Statthrin		20	20	20	20	Human		
U06038	Carbonyl Methyltransferase, "Aspartate," All Splice 1		20	415	594	348	Human		
U06039	Modulator Recognition Factor 2		20	20	20	55	Human		
U06040	"Globin," Beta		20	20	20	20	Human		
U06041	Proto-Oncogene Trk		20	20	20	20	Human		
U06042	Transcription Factor "Oa-1a1b," All Splice "2," Oa-1b		20	972	572	4987	Human		
U06043	Adrenal-Specific Protein Pp2		20	5284	20	20	Human		
U06044	Transcription Factor Bmb		20	60	69	36	Human		
U06045	Heterogeneous Nuclear Ribonucleoprotein "1," All Splice "2," Pdb-1		20	53	143	120	Human		
U06046	Urothrin		20	1005	1497	377	Human		
U06047	Adrenergic, "Beta," Receptor Kinase 2		20	83	107	172	Human		
U06048	Macmarcus		20	124	131	20	Human		
U06049	Protein Phosphatase "1," Alpha Catalytic Subunit		20	20	159	227	Human		
U06050	Tyrosine Kinase, Receptor "AII," All Splice 2		20	68	159	280	Human		
U06051	Elastase 1		20	272	351	311	Human		
U06052	H. Sapiens Hypothetical Protein Npily20 (GlyM76678)		20	29	24	63	Human		
U06053	Transcription Factor "E4f1," "Respiratory," Gamma 2 "Subunit," All Splice 4		20	296	104	270	Human		
U06054	Ephratin		20	20	20	214	Human		
U06055	Spermidine/Spermine "N1-Acetyltransferase," All Splice 2		20	20	20	20	Human		
U06056	Macrophage Scavenger "Receptor," All Splice 2		20	20	20	20	Human		
U06057	Non-Specific Cross Reacting Antigen (GlyM90277), All Splice Form 2		20	46	123	172	Human		
U06058	Mooney Murine Sarcoma Viral Oncogene Homolog		20	24	20	20	Human		
U06059	Desmoglein 1		20	20	367	456	Human		
U06060	Pro-Oncogene "Met," All Splice Form 2		20	40	99	32	Human		
U06061	Chronic Secretory Interleukin-3 Receptor		20	21	20	20	Human		
U06062	Tyrosine Kinase For		20	433	105	361	Human		
U06063	Protein-Induced Protein		20	71	20	20	Human		
U06064	Islet Amyloid Polypeptide		20	20	20	20	Human		
U06065	Ank-A Nucleoprotein Ank-A		20	173	151	78	Human		
U06066	Ribosomal Protein S20		20	82	20	32	Human		
U06067	Oncogene Amnrasen-Like 3		20	5403	4741	3251	Human		
U06068	Cytochrome "P450," Subfamily "11c," All Splice Form 2		20	79	20	20	Human		
U06069	Neut, Gila-Derived		20	20	20	20	Human		
U06070	Calmodulin Type 1		20	228	341	180	Human		
U06071	Male Enhanced Antigen		20	28	95	252	Human		
U06072	Major Histocompatibility "Complex," Dq		20	82	80	290	Human		

Expressed RNA in Subcutaneous connective tissue, Normal urothelium and Transitional cell carcinomas									
Gene	Accession	Size (bp)	Size (kb)	Size (kb)	Size (kb)	Size (kb)	Size (kb)	Size (kb)	Size (kb)
Myelin Basic Protein, "Alt. Splice Form 4"	U00001	20	48	20	20	20	20	20	20
Tubulin, Beta 2	U00002	96	1132	96	1132	96	1132	96	1132
Quinine Nucleoside-Binding Protein "Rap2", Ras-Oncogene Related	U00003	20	20	20	20	20	20	20	20
Proto-Oncogene "Sox", Alt. Splice N	U00004	20	20	20	20	20	20	20	20
Laminin, A Polypeptide	U00005	85	33	33	33	33	33	33	33
Stimulatory GTP/GDP Exchange Protein For C-Ki-Ras P21 And Smg P21	U00006	100	20	20	20	20	20	20	20
Arrestin, Beta 2	U00007	38	78	78	78	78	78	78	78
Calcium-Responsive Element "Modulator", Alt. Splice 1	U00008	20	20	20	20	20	20	20	20
External Membrane Protein, 130 KDa (Gp Z22971)	U00009	55	132	109	109	109	109	109	109
Gelsolin-like 2	U00010	33	83	83	83	83	83	83	83
Beta-1-Glycoprotein "1", Pregnancy-Specific (Gp M25384)	U00011	724	1428	1428	1428	1428	1428	1428	1428
Mucin "3", Intestinal (Gp M55405)	U00012	36	70	70	70	70	70	70	70
Mucin "3", Intestinal (Gp M55406)	U00013	22	42	42	42	42	42	42	42
Mucin (Gp M57417)	U00014	20	20	20	20	20	20	20	20
Zinc Finger Protein 92	U00015	20	20	20	20	20	20	20	20
Mucin "4", Tracheobronchial	U00016	20	20	20	20	20	20	20	20
Translocation-Associated Nucleic Acid (Transposon) Homolog 1	U00017	20	20	20	20	20	20	20	20
Protein Kinase "p43", "Cane" variant	U00018	99	95	95	95	95	95	95	95
12-Lipoxygenase	U00019	20	20	20	20	20	20	20	20
12-Lipoxygenase	U00020	36	36	36	36	36	36	36	36
"Myosin", Heavy Polypeptide "10", Non-Muscle	U00021	20	20	20	20	20	20	20	20
Paired Box Hup1 (Gp X15042)	U00022	40	31	31	31	31	31	31	31
Crystallin, Beta B3 (Gp X15144)	U00023	20	20	20	20	20	20	20	20
Crystallin, Beta B3 (Gp X15145)	U00024	20	20	20	20	20	20	20	20
"Calnexin", Type "A", Alpha 1	U00025	20	20	20	20	20	20	20	20
Crystallin, Beta 6	U00026	20	20	20	20	20	20	20	20
Paired Box Hup1 (Gp X15250)	U00027	20	20	20	20	20	20	20	20
Nuclear Mitotic Apparatus Protein "1", Alt. Splice Form 2	U00028	20	20	20	20	20	20	20	20
Potassium Channel Protein (Gp Z11585)	U00029	41	41	41	41	41	41	41	41
Potassium Channel Protein (Gp Z11585)	U00030	20	20	20	20	20	20	20	20
Major Intrinsic Protein	U00031	20	20	20	20	20	20	20	20
Phosphoribosyl Pyrophosphate "Synthetase", Subunit Ii	U00032	20	20	20	20	20	20	20	20
"Tubulin", Alpha "1", Isoform 44	U00033	20	20	20	20	20	20	20	20
Duchenne Muscular Dystrophy Protein (Dmd)	U00034	20	20	20	20	20	20	20	20
"Antigen", Prostate "Specific", Alt. Splice Form 2	U00035	20	20	20	20	20	20	20	20
"Antigen", Prostate "Specific", Alt. Splice Form 3	U00036	20	20	20	20	20	20	20	20
Alpase, Ca2+ "Transporting", Plasma Membrane "1", Alt. Splice 6	U00037	180	26	26	26	26	26	26	26
Profilaggrin	U00038	20	20	20	20	20	20	20	20
Ena, P-Serinease "1", 14.5 KDa Subunit	U00039	68	68	68	68	68	68	68	68
Thyroglobulin, isoform 2	U00040	112	112	112	112	112	112	112	112
D-Amino-Acid Oxidase	U00041	20	20	20	20	20	20	20	20
Calretinin	U00042	20	20	20	20	20	20	20	20
Multi-Like Growth Factor Ii	U00043	20	20	20	20	20	20	20	20
4-Beta-Galactosyltransferase	U00044	20	20	20	20	20	20	20	20
Integrin, Beta 3 Subunit	U00045	20	20	20	20	20	20	20	20
Retinoid Acid "Receptor", Gamma 2	U00046	20	20	20	20	20	20	20	20
Nuclear Factor "1", Variant Hepatic	U00047	20	20	20	20	20	20	20	20
Peptide Y	U00048	20	20	20	20	20	20	20	20
Proto-Oncogene "Ets-1", Alt. Splice 2	U00049	20	20	20	20	20	20	20	20
Glyceraldehyde-3-Phosphate Dehydrogenase (Gp K03121)	U00050	20	20	20	20	20	20	20	20
Trioxin Homolog Hx	U00051	20	20	20	20	20	20	20	20
Serine "Hydroxymethyltransferase", "Cytosolic", Alt. Splice 2	U00052	20	20	20	20	20	20	20	20
Serine "Hydroxymethyltransferase", "Cytosolic", Alt. Splice 3	U00053	20	20	20	20	20	20	20	20
Adp-Ribosylarginine Hydrolase	U00054	20	20	20	20	20	20	20	20
Cytidine Beta "Synthase", Alt. Splice 3	U00055	20	20	20	20	20	20	20	20
Prostaglandin Receptor Ep1 Subtype	U00056	20	20	20	20	20	20	20	20
Transcription Factor E2f-2	U00057	135	95	95	95	95	95	95	95
Gal Beta "1,34" Glucosyltransferase	U00058	20	20	20	20	20	20	20	20
Dynein, Heavy Chain, Cytoplasmic	U00059	20	20	20	20	20	20	20	20
Low Molecular Weight Synaptic Protein	U00060	20	20	20	20	20	20	20	20
Retinol-binding Protein, Mutated	U00061	20	20	20	20	20	20	20	20
Tropomyosin, "Alpha", Muscle, Alt. Splice "2", Skeletal Muscle (Fibroblast)	U00062	84	84	84	84	84	84	84	84
Integrin Beta 1 (Gp M04189)	U00063	20	20	20	20	20	20	20	20

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas									
RG2874-HT3018 at	Ribosomal Protein L39 Homolog	20	20	20	20	20	20	20	20
RG2887-HT3031 at	Sy-Related Ring Box 12 Protein (Gb X13039)	20	20	20	20	20	20	20	20
RG2887-HT3031 at	Sy-Related Ring Box 12 Protein (Gb X13039)	20	20	20	20	20	20	20	20
RG2915-HT3059 at	Major Histocompatibility Complex, Class II, E (Gb M20022)	351	720	584	735	345	345	550	550
RG2917-HT3061 at	Major Histocompatibility Complex, Class II, E (Gb M21553)	70	663	54	642	257	257	380	380
RG2936-HT3080 at	Immunoglobulin Heavy Chain, Enhancer Element	58	31	51	117	257	257	380	380
RG2981-HT3125 at	"Epican", Alt. Splice 1	20	82	39	99	20	20	20	20
RG2981-HT3127 at	"Epican", Alt. Splice 11	75	46	59	99	20	20	20	20
RG2981-HT3127 at	"Epican", Alt. Splice 12	75	46	59	99	20	20	20	20
RG2981-HT3136 at	Vasodilator Intestinal Peptide	20	20	20	20	20	20	20	20
RG2987-HT3136 at	Beta-Hexosaminidase, Alpha Polypeptide, Abnormal Splice Mutation	20	20	20	20	20	20	20	20
RG2992-HT3186 at	"Elastin", Alt. Splice 2	346	385	615	341	218	218	123	123
RG2994-HT4850 at	Thyroid Peroxidase, Alt. Splice 2	20	20	20	20	20	20	20	20
RG2995-HT4756 at	Thyroid Peroxidase, Alt. Splice 2	20	20	20	20	20	20	20	20
RG3003-HT3194 at	Spliceosomal Protein Sep 62	20	20	20	20	20	20	20	20
RG3003-HT3194 at	Spliceosomal Protein Sep 62	20	20	20	20	20	20	20	20
RG3003-HT3200 at	Adp-Ribosylation-Like Factor	76	23	20	52	412	412	387	387
RG3044-HT31742 at	"Fibronectin", Alt. Splice 1	176	20	20	20	20	20	20	20
RG3063-HT3224 at	Major Histocompatibility Complex, Class I (Gb L19653)	40	20	20	20	20	20	20	20
RG3075-HT3238 at	Focal Adhesion Kinase	239	346	135	548	36	36	247	247
RG3076-HT3238 at	Heterogeneous Nuclear Ribonucleoprotein K, Alt. Splice 1	20	20	20	20	20	20	20	20
RG3085-HT3254 at	Phosphodiesterase	20	20	20	20	20	20	20	20
RG3085-HT3254 at	Splicing Factor "SC35", Alt. Splice Form 3	20	20	20	20	20	20	20	20
RG3104-HT3280 at	Serine Protease Met1	20	20	20	20	20	20	20	20
RG3105-HT3281 at	Alpase, Cyt2 Transporting	20	20	20	20	20	20	20	20
RG3107-HT3285 at	Plasma Membrane Calcium Pump Hpmc2a	47	20	20	20	20	20	20	20
RG3111-HT311 at	Ribosomal Protein L30	1067	1464	1984	1421	542	542	749	749
RG3111-HT3287 at	Autoantigen (Gb S97069)	20	20	20	20	20	20	20	20
RG3115-HT3291 at	Goli-Mbp (Gb L18852)	20	20	20	20	20	20	20	20
RG3117-HT3293 at	Mps1 (Gb L20314)	20	20	20	20	20	20	20	20
RG3123-HT3299 at	Homeotic Protein Cbx2	20	20	20	20	20	20	20	20
RG3125-HT3301 at	Estrogen Receptor (Gb S67777)	20	20	20	20	20	20	20	20
RG3125-HT3301 at	Ces "Family", Bi-Like Domain	41	48	20	20	20	20	20	20
RG3132-HT3308 at	Zinc Finger Protein Znf81 (Gb X0729)	84	38	20	41	20	20	20	20
RG3137-HT3313 at	NadH-Ubiquinone Oxidoreductase, 39 Kda Subunit	20	20	20	20	20	20	20	20
RG3137-HT3313 at	Major Histocompatibility Complex, Class III, "Rp1", Alt. Splice 1	30	56	45	20	136	136	54	54
RG3137-HT3313 at	Beta-1-Glycoprotein "11", Pregnancy-Specific	159	212	20	82	181	181	179	179
RG3137-HT3313 at	Transcription Factor Ila	241	212	58	205	420	420	380	380
RG3175-HT3352 at	Carbohydrate Antigen	86	91	122	80	120	120	120	120
RG3175-HT3352 at	Tyrosine Phosphatase "1", Non-Receptor, Alt. Splice 3	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Measles Nucleocapsid Protein	4965	8581	5804	4889	3342	3342	3701	3701
RG3214-HT3391 at	Guanine Nucleotide-Binding Protein Hs1	148	20	20	26	277	277	20	20
RG3214-HT3391 at	Proteinase "Receptor 1", Effector Cell	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Neurofibromin 2 Tumor Suppressor (Gb L27053)	490	635	399	807	1803	1803	857	857
RG3214-HT3391 at	Prostaglandin EP3 Receptor, Alt. Splice 8	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Calcium Channel, Voltage-Gated, Alpha 1c "Subunit", Alt. Splice 2	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Calcium Channel, Voltage-Gated, Alpha 1c "Subunit", Alt. Splice 3	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Fibroblast Growth Factor, Antisense Mna	48	20	20	49	20	20	20	20
RG3214-HT3391 at	Phosphatidylinositol 3-Kinase "p110", Beta Isoform	75	30	20	142	104	104	104	104
RG3214-HT3391 at	Genome-Anthracycline Acid (Gaba) A Receptor Beta 2 Subunit	103	67	68	69	20	20	20	20
RG3214-HT3391 at	ATG (Gb U02478)	135	31	33	35	531	531	147	147
RG3214-HT3391 at	Cytellin, Alpha A	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Xanthine Dehydrogenase (Gb U06117)	20	20	106	29	20	20	20	20
RG3214-HT3391 at	Acetyl-Coenzyme A Carboxylase	20	20	2566	2515	413	413	951	951
RG3214-HT3391 at	Tenascin	2077	1377	2566	2515	413	413	951	951
RG3214-HT3391 at	Thyroid Hormone Receptor, Beta-2	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Sp11 Gene 1, "Enhancer", Top Link	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Dye-Binding Protein Hs2	49	61	169	128	475	475	72	72
RG3214-HT3391 at	Ubiquitin-Conjugating Enzyme Uba5	660	1617	3768	3501	985	985	795	795
RG3214-HT3391 at	Poa Domain-Containing Protein (Gb 221065)	20	21	102	27	20	20	20	20
RG3214-HT3391 at	Peroxisome Proliferator Activated Receptor (Gb Z30972)	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Chromosomal Translocation Associated Gene Lig 19Enl	131	123	213	154	214	214	228	228
RG3214-HT3391 at	Ribosomal Protein L37	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Potassium Channel, "Voltage-Gated", "Is-Related Family", Member 1	4242	5937	6423	5602	3878	3878	3233	3233
RG3214-HT3391 at	Only Homolog (Gb X63369), Alt. Splice Form 2	20	20	20	20	20	20	20	20
RG3214-HT3391 at	Nestin	20	20	20	20	20	20	20	20

Expressed RNA in Subcutaneous Connective Tissue, Normal Urothelium and Transitional Cell Carcinomas									
HG3405-HT3586	Zinc Finger Protein H23 (G5 X6015)	72	20	20	20	20	20	20	20
HG3412-HT3587	Blue Cone Photoreceptor Pigment	120	20	20	20	20	20	20	20
HG3415-HT3588	Protein Receptor	120	38	149	127	174	164	164	164
HG3417-HT3600	Glycylglycylase 1, Alt. Splice 1	43	67	63	52	20	20	20	20
HG3426-HT3610	Zinc Finger Protein Tcd-15, "Knopp-Like", Alt. Splice 1	1126	1529	37	40	20	20	20	20
HG3431-HT3616	Decorin, Alt. Splice 1	35	29	78	20	42	97	97	97
HG3432-HT3618	Fibronectin Growth Factor Receptor "K-Sam", Alt. Splice 1	20	20	20	20	20	64	64	64
HG3432-HT3620	Fibronectin Growth Factor Receptor "K-Sam", Alt. Splice 2	20	20	20	20	20	47	47	47
HG3432-HT3621	Fibronectin Growth Factor Receptor "K-Sam", Alt. Splice 3	20	20	20	20	20	66	66	66
HG3437-HT3628	Myelin Proteolipid Protein, Alt. Splice 2	20	60	175	60	20	20	20	20
HG3454-HT3647	Zinc Finger Protein 20	20	47	46	23	20	20	20	20
HG3477-HT3670	Cd4 Antigen	20	20	20	20	20	20	20	20
HG3484-HT3678	Protein Kinase (G5 M59287)	63	99	278	187	156	38	38	38
HG3489-HT3685	Zinc Finger Protein Zfp-36	20	20	20	20	20	20	20	20
HG3492-HT3690	Uncoupling Protein Ucp	49	125	20	43	249	85	85	85
HG3494-HT3698	Nuclear Factor NF-1B	110	217	20	138	138	158	158	158
HG3495-HT3704	Collagen, Type IV, Alpha 1	22	20	20	20	20	20	20	20
HG3502-HT3704	Homeotic Protein Hox-3	48	103	20	78	54	22	22	22
HG3510-HT3704	V-ErbA Related Er-3 Protein	199	20	20	20	20	20	20	20
HG3513-HT3707	"Myosin", Heavy Polypeptide, "Light Monomeric"	164	59	72	20	240	398	398	398
HG3514-HT3708	Tropomyosin-Troponin, Cytoskeletal	164	59	72	20	240	398	398	398
HG3517-HT3711	Alpha-1-Antitrypsin, S End	26	20	57	55	20	20	20	20
HG3521-HT3715	Rea-Related Protein Reptb	51	93	184	140	20	77	77	77
HG3523-HT4899	Proto-Oncogene "C-Myc", Alt. Splice 3, Or 114	122	20	20	20	20	20	20	20
HG3527-HT3721	Luteinizing Hormone, Beta Subunit	150	143	2089	2041	371	632	632	632
HG3543-HT3729	Insulin-Like Growth Factor 2	39	50	43	53	20	20	20	20
HG3546-HT3749	Pre-MRNA Splicing Factor "Srp33", Alt. Splice Form 1	3843	4127	5744	4506	1741	3321	3321	3321
HG3548-HT3751	Wilms Tumor-Related Protein	20	20	20	20	20	20	20	20
HG3549-HT3751	Zinc Finger Protein (G5 M88357)	488	39	153	20	88	115	115	115
HG3565-HT3768	Zinc Finger Protein (G5 M88357)	74	110	163	45	134	89	89	89
HG3566-HT3768	Protein Phosphatase Inhibitor Homolog	144	28	20	41	20	88	88	88
HG3570-HT3773	"Major Histocompatibility Complex", Class II Beta W52	365	734	20	20	20	1039	1039	1039
HG3576-HT3778	Autoimmune "Antigen", Thyroid Disease-Related Antigen	54	77	54	94	264	396	396	396
HG3578-HT3781	Homeotic Protein "7", Notoch Group	153	178	277	260	489	995	995	995
HG3584-HT3784	Major Histocompatibility "Complex", Class I (G5 X12432)	422	1148	803	1024	71	1024	1024	1024
HG3597-HT3800	Calcium "Channel", Voltage Gated "Beta 1" Subunit, "L Type", Alt. Splice 2, Skeletal Muscle Isoform	24	47	80	127	94	20	20	20
HG36-HT4101	Epidermal Growth Factor Receptor-Related Protein	93	74	80	130	699	322	322	322
HG36-HT3836	Zinc Finger Protein "Knopp-Like"	20	20	20	20	20	20	20	20
HG36-HT3845	"Myosin", Heavy Polypeptide 3, Non-Muscle	80	72	55	27	49	68	68	68
HG36-HT3849	Amphid Beta (A1) Precursor Protein, Alt. Splice 2, AA(751)	77	97	371	207	20	125	125	125
HG36-HT3893	Amphid Beta (A1) Precursor Protein, Alt. Splice 1	20	20	20	20	20	20	20	20
HG37-HT37	Upp-Glycosyltransferase 1 "Family", Polypeptide 1, Alt. Splice 1	20	20	20	20	20	20	20	20
HG3703-HT3915	Guanine Nucleotide-Binding Protein, Alpha Inhibitory Activity Polypeptide 2	20	20	20	20	20	20	20	20
HG3707-HT3922	Mucin 1, "Epithelial", Alt. Splice 6	20	20	20	20	20	20	20	20
HG3711-HT4053	Mucin 1, "Epithelial", Alt. Splice 9	20	20	20	20	20	20	20	20
HG3711-HT4053	Mucin 1, "Epithelial", Alt. Splice 8	20	20	20	20	20	20	20	20
HG3711-HT4053	Insulin-Like Leydig Hormone	20	20	20	20	20	20	20	20
HG3711-HT4053	Homeotic Protein Hox-5	20	20	20	20	20	20	20	20
HG3711-HT4053	Tyrosine Kinase Syk	20	20	20	20	20	20	20	20
HG3725-HT3981	Immunoglobulin Heavy "Chain", VJrc Regions (G5 L23566)	32	32	20	20	20	27	27	27
HG3728-HT3999	Immunoglobulin Heavy "Chain", VJrc Regions (G5 L23566)	20	20	20	20	20	20	20	20
HG3730-HT4000	Epilgrin, Alpha 3	20	20	20	20	20	20	20	20
HG3731-HT4001	Basic Transcription Factor "2", 34 Kda Subunit	20	20	20	20	20	20	20	20
HG3740-HT4010	Basic Transcription Factor "4", Kda Subunit	20	20	20	20	20	20	20	20
HG3748-HT4018	Immunoglobulin Heavy "Chain", Fd Fragment	20	20	20	20	20	20	20	20
HG3790-HT4060	Ribosomal Protein L26	1409	1634	1882	1871	308	563	563	563
HG3843-HT384	Mag-4 Antigen	20	20	20	20	20	20	20	20
HG3859-HT4129	Immunoglobulin Gamma Heavy "Chain", V(D)J Regions (G5 U13200)	20	20	20	20	20	20	20	20
HG3972-HT4142	Homeotic Protein Hox-42	20	20	20	20	20	20	20	20
HG3984-HT4154	Phosphoglucosylase 1, Alt. Splice	237	26	20	20	20	20	20	20
HG3985-HT4163	Sodium "Channel", Type "III", Alpha Subunit	20	20	20	20	20	20	20	20
HG3987-HT4187	Cell Division Cycle Protein 2-Related Protein Kinase (Plasie)	20	20	20	20	20	20	20	20
HG3914-HT4184	Homeotic Protein "A1", Class 1, Alt. Splice 1	20	20	20	20	20	20	20	20
HG3920-HT4521	Homeotic Protein "A1", Class 1, Alt. Splice 1	20	20	20	20	20	20	20	20

[illegible]

	Expressed RNA in Subendothelial connective tissue, Normal urothelium and Transitional cell carcinomas	412	522	20	141	170
J02854..at	Human 20-kDa myosin light chain (MLC-2) "mRNA," complete cds	412	522	20	141	170
J02871..at	Human lung cytosolic P450 (IV subfamily) B1 "protein," complete cds	20	319	697	445	420
J02874.at	Human adipocyte lipid-binding protein, complete cds	499	287	558	207	67
J02876.at	Human placental lactate binding protein "mRNA," complete cds	20	31	20	20	110
J02883.at	Human cathepsin "mRNA," complete cds	20	20	20	173	20
J02888.at	Human glutathione oxidoreductase (NQO2) "mRNA," complete cds	69	131	127	154	173
J02895.at	Human protein phosphatase 2A regulatory subunit alpha-isotype (alpha-PR6S) "mRNA," complete cds	109	155	202	451	426
J02907.at	Human cytochrome P450IIF1 reductase (CYP2F1) "mRNA," complete cds	31	32	32	86	94
J02908.at	Human 6S-tubulin phosphorylase (p6S) "mRNA," complete cds	20	66	20	20	239
J02923.at	Human corticosteroid binding globulin "mRNA," complete cds	117	52	24	282	48
J02943.at	Human estradiol superoxide dismutase (SOD3) "mRNA," complete cds	45	52	24	541	87
J02947.at	Unknown protein gene extracted from Human beta-2-adrenergic receptor "gene," complete cds	115	20	20	232	20
J02960.cds1..at	Human platelet glycoprotein IIB "mRNA," 3' end	20	20	20	84	53
J02963.at	Human thrombospondin gene, complete cds	24	20	20	61	20
J02973.mal1.at	Human phytyltransferase "mRNA," complete cds	20	34	34	47	27
J02982..at	Human transforming growth factor-beta 3 (TGF-beta3) "mRNA," complete cds	30	31	30	47	27
J02986.cds1..at	Human MHC class II HLA-DQ9 "gene," complete cds	30	30	30	20	20
J03027..at	Human SPARC/Casprasein "mRNA," complete cds	393	64	20	20	20
J03040.at	Human placenta-specific (GCB) gene, complete cds	20	20	20	20	20
J03060.at	Human DNFI552 (lung) "mRNA," complete cds	57	20	20	20	20
J03069.at	Human MYCL2 gene, complete cds	204	230	297	356	20
J03089.mal1.at	Chronic osteomyelitis/melanoma CS-1 gene extracted from Human growth hormone (GH-1 and GH-2) and chorionic somatomammotropin	20	39	42	136	21
J03071..cds3..at	Human co-bet glucocorticoid (proactivator) "mRNA," complete cds	910	925	1569	1188	1251
J03132.at	Human transcription factor SP1 "mRNA," 3' end	20	22	20	138	24
J03181.at	Human serum response factor (SRF) "mRNA," complete cds	96	53	29	136	130
J03171.at	Human interferon-alpha receptor (HuIFN-alpha-Rc) "mRNA," complete cds	20	20	20	20	20
J03191..at	Human prolactin "mRNA," complete cds	799	668	760	597	1090
J03241..at	Human transforming growth factor-beta 2 (TGF-beta2) "mRNA," complete cds	60	117	415	542	390
J03242..at	Human insulin-like growth factor II "mRNA," complete cds	117	172	38	172	172
J03250..at	Human vitamin D receptor "mRNA," complete cds	20	20	20	20	20
J03256.at	Human transferrin alpha-subunit (GNAX) "mRNA," complete cds	20	20	20	20	64
J03263.at	Human lysosome-associated membrane glycoprotein (lamp A) "mRNA," complete cds	82	93	91	20	20
J03278.at	Human plasminogen activator (PDGF) receptor "mRNA," complete cds	381	254	287	327	879
J03459.at	Human poly(ADP-ribose) synthetase "mRNA," complete cds	78	42	82	71	137
J03473.at	Human complement protein component C7 "mRNA," complete cds	20	36	20	20	20
J03507.at	Human serum amyloid A "gene," complete cds	70	70	20	20	20
J03589.at	Human ubiquitin-like protein (GUX) "gene," complete cds	28	20	66	20	85
J03592.at	Human ADPATP translocase "mRNA," 3' and clone pHA78	905	1140	1599	807	683
J03600.at	Human lipoyltransferase "mRNA," complete cds	20	295	233	220	82
J03626.mal1..at	UMP gene extracted from Human UMP synthase "mRNA," complete cds	24	20	52	155	20
J03634.at	Human erythropoietin differentiation protein mRNA (EDP), complete cds	20	20	20	20	67
J03764.at	Human growth hormone variant (GH1) and growth hormone variant-2 (GH2) "mRNA," complete cds	96	131	146	145	218
J03766.at	Human plasminogen activator inhibitor-1 "gene," exons 2 to 9	165	49	39	135	83
J03778..at	Human microtubule-associated protein tau "mRNA," complete cds	20	20	20	20	20
J03779..at	Human common acute lymphoblastic leukemia antigen (CALLA) "mRNA," complete cds	110	195	164	139	208
J03790..at	Human ascites small nuclear ribonucleoprotein Sm-D "mRNA," complete cds	32	35	33	60	20
J03801..at	Human phosphatase 2A "mRNA," complete cds with an Alu repeat in the 3' flank	557	1137	321	623	1036
J03805..at	Human liver glucose transporter-like protein (GLUT2), complete cds	206	202	245	174	74
J03810..at	Human uroporphyrinogen III synthase "mRNA," complete cds	20	20	32	20	20
J03824..at	V box binding protein 1 (VBI-1) mRNA	1439	694	1147	342	1262
J03827..at	Human pulmonary surfactant protein C (SP-C) and pulmonary surfactant protein C1 (SP-C1) genes, complete cds	20	20	20	20	80
J03900.mal1.at	Human primary tumor-inducible protein (p-30) "mRNA," complete cds	248	214	20	125	756
J03910..mal1.at	Human (gene 14S) metallothionein-Ig (MT-Ig) "gene," complete cds	20	20	20	20	200
J03911..at	Human oncoferritin A "mRNA," complete cds	20	20	20	20	80
J03925.at	Human Mac-1 "gene encoding complement receptor type 3," "CD11b," complete cds	20	20	20	20	20
J03930..at	Human intestinal alkaline phosphatase (ALP) "gene," complete cds	111	21	121	154	20
J03934..at	Human "NAD(P)H:menadiene oxidoreductase "mRNA," complete cds	20	20	20	72	20
J04027..at	Human plasma membrane G22-pumping ATPase "mRNA," complete cds	145	403	20	153	89
J04028..at	Human sapiens keratin 10 type 1 intermediate filament (KRT10) "mRNA," complete cds	20	134	45	20	20
J04031..at	Human methylglutarylthiolate dehydrogenase-methylglutarylthiolate cyclohydrolyase synthetase "mRNA," complete cds	162	220	20	52	109
J04040..at	Human glucagon "mRNA," complete cds	89	76	43	39	53
J04046..at	Human carbonyl reductase "mRNA," complete cds	22	53	20	365	20
J04055.at	Human early growth response 2 protein (EGR2) "mRNA," complete cds	20	20	20	20	20
J04076.at	Human early growth response 2 protein (EGR2) "mRNA," complete cds	20	20	20	20	20

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas						
Human complement component C11 "mRNA", complete cds	407	225	20	22	20	43
Human DNA topoisomerase II (top2) "mRNA", complete cds	56	33	39	63	48	143
Homo sapiens phenol UDP-glucuronosyltransferase (UDPGT) "mRNA", complete cds	72	265	498	801	137	143
Human erythroblastosis virus oncogene homolog 1 (ets-1) "mRNA", complete cds	26	20	20	20	43	77
Human erythroblastosis virus oncogene homolog 2 (ets-2) "mRNA", complete cds	24	20	20	20	20	20
Human c-jun proto oncogene "cjun", complete cds, clone HCL-1	44	20	20	20	20	20
Human activation (Act-2) "mRNA", complete cds	51	119	51	20	20	195
Human T cell receptor zeta-chain "mRNA", complete cds	47	20	20	33	20	88
M151 gene extracted from Human gastrointestinal tumor-associated antigen GA733-1 protein "gene", complete cds, clone 5516	1311	1291	2743	2561	835	758
Human interferon gamma (IFN-gamma) "mRNA", complete cds	94	20	89	20	66	111
Human leukocyte IgG receptor (Fc-gamma-R) "mRNA", complete cds	37	1186	90	45	128	825
Human interferon-inducible protein 27-Sep "mRNA", complete cds	580	20	27	20	94	207
Human leukotaxin "mRNA", complete cds	297	307	31	512	42	207
Homo sapiens phosphoglycerate mutase (PGAM-B) "mRNA", complete cds	546	20	20	20	279	207
Human alpha-1 type XI collagen (COL11A1) "mRNA", complete cds	157	370	23	257	94	271
Homo sapiens "vesicular" membrane phosphoprotein 1 (LAMP1) "mRNA", complete cds	20	20	20	221	145	206
Human keratin-18acid phosphatase type 5 "mRNA", complete cds	20	20	20	119	20	106
Human cyclochrome c "gene", complete cds	20	20	20	20	20	20
Homo sapiens (clone H1-10) cyclochrome P-450 (liver) "mRNA", complete cds	549	413	20	144	20	486
Human 14 kd lectin "mRNA", complete cds	82	61	95	78	299	92
Human mitochondrial creatine kinase (CKMT) "gene", complete cds	73	70	20	68	20	30
Human muscle glycogen synthase "mRNA", complete cds	83	20	20	20	20	20
Human basic fibroblast growth factor (bFGF) 22.5 "cd", 21 kd and 18 kd protein "mRNA", complete cds	78	20	20	20	20	20
Human synectin "mRNA", complete cds	68	44	55	65	20	65
Human HPGP mRNA encoding bone small proteoglycan 1 (biglycan), complete cds	97	171	58	238	436	519
Human prolidase (imidoglycosidase) "mRNA", complete cds	117	279	236	375	189	239
Human lupus p70 (Ku) autoantigen protein "mRNA", complete cds	295	121	237	142	20	183
Human lupus autoantigen (small nuclear ribonucleoprotein), "snRNP: SNA-D" "mRNA", complete cds	108	679	6978	8095	1707	3338
Human elongation factor EF-1-alpha "gene", complete cds	4935	20	20	20	20	20
Human heparan sulfate proteoglycan (HSPG) core "protein", 3' end	20	20	20	20	20	20
Human bactericidal permeability increasing protein (BPI) "mRNA", complete cds	20	20	34	20	20	20
Human autonomous replicating sequence H1 (ARSH1)	20	20	20	20	20	20
Human slow-twitch skeletal tropomyosin 1 (TNNT1) "mRNA", complete cds	228	271	167	259	240	466
Human adenylyl dehydrogenase "mRNA", complete cds	154	70	20	143	271	208
Human cytosolic adenylyl kinase (AK1) gene, complete cds	20	52	68	53	20	20
Human MSK3 "gene", complete cds	559	638	399	615	649	484
Human cyclochrome c oxidase subunit VIII (COX8) mRNA, complete cds	57	20	20	20	20	20
Human alkaline phosphatase (ALP-1) "mRNA", complete cds	70	20	20	29	20	20
Human carboxypeptidase "M", 3' end	154	67	128	131	20	34
Human cyclochrome bc-1 complex core protein II "mRNA", complete cds	572	578	20	1003	431	618
Human heart/aortic muscle ATP/ADP translocator (ANT1) "gene", complete cds	112	96	54	86	76	147
Human 90 kD heat shock protein "gene", complete cds	172	20	20	20	20	31
Human cathepsin G "gene", complete cds	20	20	20	20	20	40
Homo sapiens endothelin-1 (EDN1) "gene", complete cds	64	44	59	100	83	40
Human (clone pA3) protein disulfide isomerase related protein (ERp72) "mRNA", complete cds	20	24	689	145	98	24
Human aspartyl-tRNA synthetase alpha-2 subunit "mRNA", complete cds	20	20	20	20	20	20
Human cathepsin E "mRNA", complete cds	20	20	20	20	20	20
Human serine dehydratase "mRNA", complete cds	20	20	20	20	20	20
Human transcobalamin 1 "mRNA", complete cds	20	20	20	20	20	20
Human type IV collagenase "mRNA", complete cds	27	32	20	20	20	20
Human Na/K-ATPase subunit alpha 2 (ATP1A2) gene, complete cds	20	20	20	20	20	20
Human lipocalinase "mRNA", complete cds	20	20	20	20	20	20
Human carboxypeptidase H "mRNA", 3' end	20	20	20	20	20	20
Human tyrosine receptor "mRNA", complete cds	20	20	20	20	20	20
Human aspartyl-tRNA synthetase "mRNA", complete cds	122	55	93	110	20	91
Human c-myc related protein 1 (CPR1) "mRNA", complete cds	128	83	133	66	159	220
Human replication protein A, 30 kD subunit "mRNA", complete cds	20	20	20	20	20	20
Homo sapiens (clones "MDP4", "MDP7") microosomal dipeptidase (MDP) "mRNA", complete cds	20	20	20	20	20	20
Human IMP dihydrogenase type 1 mRNA complete cds	154	108	162	124	344	244
Human sarcomeric mitochondrial creatine kinase (MTCK) "gene", complete cds	20	20	20	20	20	20
Human regenerating protein (reg) "gene", complete cds	57	50	95	51	236	40
Human 3,4-catechol: estrogen UDP-glucuronosyltransferase "mRNA", complete cds	20	20	20	20	20	20
Human RNA polymerase subunit RPB "33" "mRNA"	20	20	20	20	20	20
Human glucanase transferase M3 (GSTM3) "mRNA", complete cds	20	20	20	20	20	100

Gene	Accession	Size (bp)	GC (%)	Exons	Introns	UTR	5'UTR	3'UTR	Start	Stop	Frame	ORF	ORF Length (aa)	ORF Score	ORF Type	ORF Description
Human beta-spectrin (SPTB)	J05506	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human beta-spectrin (SPTB) "mRNA", complete cds
Human collagenase (MMP1)	J05507	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human collagenase (MMP1) "mRNA", complete cds
Human pancreatic mucin (MUC3)	J05508	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human pancreatic mucin (MUC3) "mRNA", complete cds
Human proliferating cell nuclear antigen (PCNA)	J05509	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human proliferating cell nuclear antigen (PCNA) "mRNA", complete cds
Human integrin beta-5 subunit (ITGB5)	J05510	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human integrin beta-5 subunit (ITGB5) "mRNA", complete cds
Human subunit C of VAPase (VAPC)	J05511	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human subunit C of VAPase (VAPC) "mRNA", complete cds
Human class II histocompatibility antigen DC-alpha chain mRNA	J05512	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human class II histocompatibility antigen DC-alpha chain mRNA
Human metalloproteinase-1A (MMP1A)	J05513	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human metalloproteinase-1A (MMP1A) "mRNA", complete cds
Human alpha-1-antitrypsin (AAT1)	J05514	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human alpha-1-antitrypsin (AAT1) "mRNA", complete cds
Human Bim-1 transforming "gene", complete coding region	J05515	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human Bim-1 transforming "gene", complete coding region
Human lymphocyte interferon alpha type 201 "mRNA", complete cds	J05516	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human lymphocyte interferon alpha type 201 "mRNA", complete cds
Human neurophysin Y (NPY) "mRNA", complete cds	J05517	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human neurophysin Y (NPY) "mRNA", complete cds
Human gastrin-releasing peptide (GRP) "mRNA", complete cds	J05518	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human gastrin-releasing peptide (GRP) "mRNA", complete cds
Human endothelin-1 (EDN1) "mRNA", complete cds	J05519	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human endothelin-1 (EDN1) "mRNA", complete cds
Human angiotensinogen (ANG) "mRNA", complete cds	J05520	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human angiotensinogen (ANG) "mRNA", complete cds
Human angiotensin-converting enzyme (ACE) "mRNA", complete cds	J05521	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human angiotensin-converting enzyme (ACE) "mRNA", complete cds
Human angiotensin II (ANGII) "mRNA", complete cds	J05522	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human angiotensin II (ANGII) "mRNA", complete cds
Human angiotensin II type 1 receptor (AT1R) "mRNA", complete cds	J05523	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human angiotensin II type 1 receptor (AT1R) "mRNA", complete cds
Human angiotensin II type 2 receptor (AT2R) "mRNA", complete cds	J05524	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human angiotensin II type 2 receptor (AT2R) "mRNA", complete cds
Human angiotensin II type 3 receptor (AT3R) "mRNA", complete cds	J05525	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human angiotensin II type 3 receptor (AT3R) "mRNA", complete cds
Human angiotensin II type 4 receptor (AT4R) "mRNA", complete cds	J05526	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human angiotensin II type 4 receptor (AT4R) "mRNA", complete cds
Human angiotensin II type 5 receptor (AT5R) "mRNA", complete cds	J05527	119	41	1	0	104	20	20	110	93	88	20	20	116	133	Human angiotensin II type 5 receptor (AT5R) "mRNA", complete cds
Human angiotensin II type 6 receptor (AT6R) "mRNA", complete cds	J05528															

Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas		
Human RD protein (RD) "mRNA", complete cds	103411..at	155
Human zinc finger protein basoonin "mRNA", complete cds	103437..at	20
Human M4 protein "mRNA", complete cds	10352..at	21
Human regulatory myosin light chain (MYL5) "mRNA", complete cds	10352..at	20
Human fibroblast growth factor receptor 4 (FGFR4) "mRNA", complete cds	10352..at	152
Human sialin (clone CD18) tumor necrosis factor receptor 2 related protein "mRNA", complete cds	10352..at	194
Human CACCC box-binding protein S21 (RPS21) "mRNA", complete cds	10352..at	186
Human ribosomal protein S21 (RPS21) "mRNA", complete cds	10352..at	20
Human sialin (clone CC6) MADH-lubiquone oxidoreductase subunit "mRNA", 3' end cds	10352..at	303
Human nucleoside binding protein "mRNA", complete cds	10352..at	128
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	39
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	110
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	61
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	99
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	152
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	1374
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	61
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
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Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone BHT-1) L-type voltage-dependent calcium channel a1 subunit (NBT) "mRNA", complete cds	10352..at	20
Human sialin (clone B		

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Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinoma									
L15296_s_at	Human sapiens clone HRCNC2b retinal rod cyclic nucleotide-gated cation channel gene, complete cds	71	20	20	82	20	69	20	69
L15309_s_at	Human zinc finger protein (ZNF141) "mRNA", complete cds	50	29	39	82	31	39	20	42
L15326_s_at	Human endonuclease type II "mRNA", complete cds	30	30	30	20	78	30	20	20
L15344_s_at	Human high molecular weight B cell growth factor mRNA sequence	30	30	30	20	78	30	20	20
L15369_s_at	Human G protein-coupled receptor kinase (GRK5) "mRNA", complete cds	124	20	20	81	79	213	20	55
L15409_s_at	Human sapiens (clone g7) von Hippel-Lindau disease tumor suppressor mRNA sequence	20	20	20	20	374	4955	369	20
L15440_s_at	Human sapiens tyrosine hydroxylase (TH) gene, 3' end, insulin (INS) gene, complete cds, insulin-like growth factor 2 (IGF2) gene, 5' end	20	61	20	20	34	26	20	20
L15472_s_at	Human sapiens perlecan-associated protein (PAP) gene, complete cds	196	363	20	20	178	4955	369	20
L15472_s_at	Human complement factor B "mRNA", complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Human ETS oncogene (PEP1) "mRNA", complete cds	90	20	20	20	20	20	20	20
L15472_s_at	Human uterine leiomyosarcoma associated protein 1 (LUPP1) "mRNA", partial cds	23	25	25	20	20	20	20	20
L15472_s_at	Human putative cyclin-coupled receptor kinase (GRK6) "mRNA", complete cds	66	95	147	176	40	148	20	20
L15472_s_at	Human sapiens protein-coupled receptor kinase (GRK6) "mRNA", complete cds	190	115	337	217	536	356	59	20
L15472_s_at	Human tyrosine kinase (LOX) gene, exon 7	68	20	20	20	20	20	20	20
L15472_s_at	Human zinc finger protein "mRNA", complete cds	51	20	20	20	20	20	20	20
L15472_s_at	Human tyrosine kinase (CDCB) "mRNA", complete cds	32	20	20	20	20	20	20	20
L15472_s_at	Human sapiens (clone HAH16) gamma-glutamyl carboxylase "mRNA", complete cds	100	36	36	20	83	133	20	20
L15472_s_at	Human high molecular weight protein (HMG-17) gene, exon 1.6, complete cds	160	100	100	20	187	20	160	20
L15472_s_at	Human pre-TNK cell associated protein (1012A2) "mRNA", complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Human pre-TNK cell associated protein (383) "mRNA", 3' end	68	63	63	54	115	210	68	20
L15472_s_at	Human pre-TNK cell associated protein (3C1) "mRNA", complete cds	46	20	20	20	20	20	20	20
L15472_s_at	Human pre-TNK cell associated protein (GRHA) "mRNA", complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Complement receptor 1 gene, extracted from Human complement receptor type 1 (alleles S and F) gene, enhancer and	20	20	20	20	20	20	20	20
L15472_s_at	Human MAGI-2 protein gene, complete cds	24	64	64	76	64	20	20	20
L15472_s_at	Human MAGI-2 gene, exon 1, complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Human protein synthesis factor (elf-4C) "mRNA", complete cds	37	75	75	73	37	20	20	20
L15472_s_at	Human ankyrin gene, complete cds	36	77	77	93	76	66	55	20
L15472_s_at	Human sapiens tyrosine phosphatase (A-2/PTP) "mRNA", complete cds	220	151	151	476	218	602	440	20
L15472_s_at	Human glutamate receptor (GLUR5) "mRNA", complete cds	89	87	87	20	20	20	113	20
L15472_s_at	Human gliad-derived neurotrophic factor gene, complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Human NF-kappa-B transcription factor p65 subunit "mRNA", complete cds	20	24	24	69	20	20	20	20
L15472_s_at	Human translation initiation factor eIF-2 gamma subunit "mRNA", complete cds	20	34	34	20	22	20	20	20
L15472_s_at	Human MAC30 "mRNA", 3' end	139	239	239	156	147	328	64	20
L15472_s_at	Human sapiens 59 protein "mRNA", 3' end	139	239	239	156	147	328	64	20
L15472_s_at	Human nuclear-encoded mitochondrial carbonic anhydrase (CAS) "mRNA", complete cds	143	20	20	20	25	452	357	20
L15472_s_at	Human HRY gene, complete cds	143	87	87	265	135	141	105	20
L15472_s_at	Human myosin homologue (MYH12) "mRNA", 3' end of cds	532	210	210	157	177	38	20	20
L15472_s_at	Human transaldolase mRNA containing transposable element, complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Human FMR1 gene, 3' end	20	89	89	144	86	20	81	20
L15472_s_at	Human sapiens ribosomal protein L37 (RPL37) "mRNA", complete cds	1991	2522	2522	2225	2458	1621	1206	20
L15472_s_at	Human sapiens insulin-like growth factor receptor beta (IGFB) "mRNA", complete cds	20	20	20	54	39	39	55	20
L15472_s_at	Human sapiens 5S ribosomal protein A1 gene "mRNA", complete cds	358	305	305	588	346	282	275	20
L15472_s_at	Human sapiens macrophage migration inhibitory factor (MIF) gene, complete cds	612	918	918	1439	2210	97	425	20
L15472_s_at	Human cytoglycogen (DAG1) "mRNA", complete cds	84	40	40	104	20	225	79	20
L15472_s_at	Human sapiens histone H2A.1b "mRNA", complete cds	89	119	119	170	175	176	548	20
L15472_s_at	Human sapiens histone H2A.2 "mRNA", complete cds	89	119	119	170	175	176	548	20
L15472_s_at	Human Gp14 "mRNA", complete cds	145	20	20	20	37	20	20	20
L15472_s_at	Human activating transcription factor 3 (ATF3) "mRNA", complete cds	145	20	20	20	20	20	20	20
L15472_s_at	Human A1-receptor "mRNA", complete cds	43	20	20	131	55	20	20	20
L15472_s_at	Human HCF1 gene related mRNA sequence	20	20	20	20	20	20	20	20
L15472_s_at	Human sapiens transcription factor (CBF) "mRNA", 3' end	150	151	151	157	62	304	281	20
L15472_s_at	Human glucagon receptor "mRNA", complete cds	100	20	20	20	20	20	20	20
L15472_s_at	Human protein serine/threonine kinase s11 "mRNA", complete cds	32	20	20	20	20	20	20	20
L15472_s_at	Human protein serine/threonine kinase s12 "mRNA", complete cds	32	20	20	20	20	20	20	20
L15472_s_at	Human sapiens oncomodulin gene	20	20	20	20	20	20	20	20
L15472_s_at	Human octamer binding transcription factor 1 (OTF1) "mRNA", complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Human annexin III (ANX3) gene, alternative	20	20	20	20	20	20	20	20
L15472_s_at	Human GTP-dissociation inhibitor protein (GDI) "mRNA", complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Human sapiens mRNA in the myeloid leukemia cell line U937	20	20	20	20	20	20	20	20
L15472_s_at	Human sapiens mRNA in the myeloid leukemia cell line U937	20	20	20	20	20	20	20	20
L15472_s_at	Human glutamate receptor 2 (HGR2) "mRNA", complete cds	28	20	20	20	20	20	20	20
L15472_s_at	Human protein "mRNA", complete cds	32	20	20	20	20	20	20	20
L15472_s_at	Human insulin "mRNA", complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Human leukemia virus receptor 2 (GLVR2) "mRNA", complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Human leukemia virus receptor 1 (GLVR1) "mRNA", complete cds	20	20	20	20	20	20	20	20
L15472_s_at	Human p150 protein to beta "mRNA", complete cds	27	40	40	91	248	61	27	20

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Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas						
L39059_at	Homo sapiens transcription factor SL-1 "mRNA", complete cds	20	51	102	26	104
L39060_at	Homo sapiens transcription factor SL-1 "mRNA", complete cds	20	20	20	20	20
L39081_at	Homo sapiens transcription factor SL-1 "mRNA", partial cds	20	17	88	20	22
L39084_ms_at	Homo sapiens interleukin 9 receptor (IL9R) gene, complete cds	36	62	88	20	20
L39211_at	Homo sapiens mitochondrial carnitine palmitoyltransferase I "mRNA", complete cds	20	37	20	71	36
L39833_at	Homo sapiens (clone HX61e3) K+ channel beta subunit "mRNA", complete cds	46	20	20	22	36
L39874_at	Homo sapiens deoxydicyclole desaminase "gene", complete cds	74	52	184	165	293
L40027_at	Homo sapiens phylogen synthase kinase 3 "mRNA", complete cds	193	212	184	165	293
L40157_at	Homo sapiens endosome-associated protein (EEA1) "mRNA", complete cds	45	39	70	22	20
L40357_at	Homo sapiens thyroid receptor interactor (TRIP7) "mRNA", 3' end of cds	68	75	71	74	20
L40366_at	Homo sapiens thyroid receptor interactor (TRIP3) "mRNA", partial cds, bp=1-40366 myope-RNA	53	20	20	20	107
L40371_at	Homo sapiens thyroid receptor interactor (TRIP4) "mRNA", 3' end of cds	48	64	20	98	20
L40377_at	Homo sapiens cytoplasmic antiproliferase 2 (CAP2) "mRNA", complete cds	91	20	35	20	107
L40379_at	Homo sapiens thyroid receptor interactor (TRIP10) "mRNA", 3' end of cds	224	63	184	123	20
L40380_at	Homo sapiens thyroid receptor interactor (TRIP11) "mRNA", 3' end of cds	20	38	48	27	20
L40384_at	Homo sapiens thyroid receptor interactor (TRIP13) "mRNA", partial cds, bp=1-40384 myope-RNA	20	20	20	20	20
L40386_at	Human DP-2 "mRNA", complete cds	49	72	80	20	158
L40388_at	Homo sapiens thyroid receptor interactor (TRIP14) "gene", 3' end of cds, bp=1-40388 myope-DNA remnant=CDS	196	165	107	135	527
L40389_at	Homo sapiens thyroid receptor interactor (TRIP15) "mRNA", 5' end of cds, bp=1-40389 myope-RNA	20	20	20	20	20
L40391_at	Homo sapiens (clone S164) "mRNA", 3' end of cds	20	49	64	46	20
L40392_at	Homo sapiens (clone S171) "mRNA", complete cds	98	111	109	57	20
L40393_at	Homo sapiens (clone S194) "mRNA", complete cds	89	118	35	42	92
L40394_at	Homo sapiens (clone S194) "mRNA", 3' end of cds	28	20	61	43	20
L40396_at	Homo sapiens (clone S201) "mRNA", 3' end of cds	107	45	20	78	41
L40398_at	Homo sapiens (clone S201) "mRNA", 3' end of cds	20	20	22	20	57
L40399_at	Homo sapiens (clone S211) "mRNA", 3' end of cds	407	487	587	954	194
L40399_at	Homo sapiens (clone S240) "mRNA", complete cds	20	20	20	20	20
L40400_at	Homo sapiens (clone zap113) "mRNA", 3' end of cds	20	20	20	33	20
L40401_at	Homo sapiens (clone zap128) "mRNA", 3' end of cds	197	101	95	72	42
L40402_at	Homo sapiens (clone Zap2) mRNA fragment	20	20	20	20	20
L40403_at	Homo sapiens thyroid receptor interactor (TRIP9) "gene", complete cds	20	20	39	31	55
L40407_at	Homo sapiens thyroid receptor interactor (TRIP3) "mRNA", 3' end of cds	20	20	20	20	20
L40410_at	Homo sapiens thyroid receptor interactor (TRIP3) "mRNA", 3' end of cds	112	70	112	77	71
L40411_at	Homo sapiens thyroid receptor interactor (TRIP8) "mRNA", 3' end of cds	20	20	20	20	20
L40586_at	Homo sapiens diuronate-2-sulfatase (IDS) "mRNA", complete cds	20	20	20	20	100
L40636_at	Homo sapiens (clone FBK III 16) protein tyrosine kinase (NET PTK) "mRNA", complete cds	112	78	32	55	62
L40904_at	H. sapiens peroxisome proliferator activated receptor "gamma", complete cds	145	218	425	342	653
L40905_at	Homo sapiens phosphoglucomutase-related protein (PGMURP) "gene", complete cds	142	58	73	123	520
L40992_at	Homo sapiens (clone PEP2DA1) core-binding factor, runt domain, alpha subunit 1 (CBFA1) "mRNA", 3' end of cds	142	58	73	123	520
L41086_at	Homo sapiens NF-A14c "mRNA", complete cds	20	20	20	20	20
L41087_at	Homo sapiens expressed pseudo TCTA mRNA at 11.3 translocation site, complete cds	20	65	20	23	20
L41145_at	Homo sapiens 5-HT _{2B} serotonin receptor "mRNA", complete cds	125	20	20	20	117
L41182_at	Homo sapiens collagen alpha 3 type IX (COL3A3) "mRNA", complete cds	20	36	20	55	20
L41268_at	Homo sapiens natural killer-associated transcript 2 (NKAT2) "mRNA", complete cds	20	20	20	20	20
L41349_at	Homo sapiens phospholipase C beta 3 (PLCB4) "mRNA", complete cds	20	37	20	46	20
L41351_at	Homo sapiens prolactin "mRNA", complete cds	20	20	31	20	27
L41390_at	Homo sapiens core 2 beta 1.5-N-acetylglucosaminyltransferase (core 2 GntT) "gene", exon 1/bp=1-41390 myope-DNA remnant=exon	39	28	55	61	46
L41559_at	Homo sapiens plectin-4/cardinellamine hydroxylase (PCBD4) "mRNA", complete cds	20	20	20	20	20
L41607_at	Human beta-1,5-N-acetylglucosaminyltransferase (GNT1) gene	142	58	73	123	520
L41680_at	Homo sapiens UDP-galactase-4-epimerase (GALE) "mRNA", complete cds	142	58	73	123	520
L41680_at	Homo sapiens alpha-2,8-polyglutamate (PST) "gene", complete cds	142	58	73	123	520
L41816_at	Homo sapiens TGF receptor-associated protein (TRAPPC) "mRNA", 3' end of cds	146	99	60	79	180
L41816_at	Homo sapiens can kinase 1 "mRNA", complete cds	20	20	20	20	20
L41870_at	Homo sapiens retinoblastoma susceptibility protein (RBI) "mRNA and mutations	20	20	20	20	20
L41870_at	Homo sapiens splicing factor, arginine-serine-rich 7 (SFRS7) "gene", complete cds	25	32	26	25	20
L41913_at	Homo sapiens retinoblastoma susceptibility protein (RBI) "gene", exon 26, bases 174145-174668 in L11910	20	20	20	20	20
L41913_at	Homo sapiens HIC-1 gene fragment	20	20	20	20	20
L41913_at	Homo sapiens (clone FBK III 11c) protein-tyrosine kinase (DRT) "mRNA", complete cds	20	20	20	20	20
L41913_at	Homo sapiens cellular co-factor (RAB) "gene", complete cds	20	20	20	20	20
L41913_at	Homo sapiens (clone 35.3) DRAL "mRNA", complete cds	20	20	20	20	20
L42243_at	Homo sapiens (clone S118) alternatively spliced interferon receptor (IFNAR2) "gene", exon 9 and complete cds	37	35	20	20	20
L42324_at	Homo sapiens (clone GPCR V) G protein-coupled receptor gene (GPCR) "gene", 5' end of cds, bp=1-42324 myope-DNA remnant=CDS	20	20	20	20	20
L42324_at	Homo sapiens (clone GPCR V) G protein-coupled receptor gene (GPCR) "gene", 5' end of cds, bp=1-42324 myope-RNA	20	20	20	20	20
L42372_at	Homo sapiens protein phosphatase 2A B56-alpha "mRNA", complete cds	36	76	96	42	29
L42372_at	Homo sapiens P2A B56-beta "mRNA", complete cds	20	20	106	20	149
L43379_at	Homo sapiens bone-derived growth factor (BFGF-1) "mRNA", complete cds	87	86	124	70	123

Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinoma									
M13755 at	Human interferon-induced 17-AID-1/5-AID protein "mRNA", complete cds	200	230	109	181	93	921		
M13792 at	Human adenosine deaminase (ADA) "gene", complete cds	138	96	216	85	77	150		
M13829 s at	Human putative rat related protein (p138-rat) "mRNA", partial cds	81	131	186	147	569	284		
M13903 at	Human involucrin mRNA	1000	20	366	360	78	20		
M13926 s at	Human c-myc-p64 "mRNA", initiating from promoter "P0", (H1.myc2.5) partial cds	125	82	63	39	529	208		
M13928 s at	Human ribosomal protein S14 gene, complete cds	20	20	20	20	20	20		
M13934 s at	Human ribosomal protein S14 gene, complete cds	378	5721	6193	3882	1080	2000		
M13952 at	Human mesodermal keratin K7 (type II) "mRNA", 3' end	117	295	3435	4022	2461	1337		
M13981 at	Human inhibin A-subunit "mRNA", complete cds	37	20	224	65	20	74		
M13982 at	Human inhibin A-subunit "mRNA", complete cds	20	20	20	20	169	20		
M13984 s at	Human B-cell leukemia/lymphoma 2 (bcl-2) proto-oncogene mRNA encoding bcl-2-alpha "protein", complete cds	102	119	195	133	28	20		
M14016 at	Human uroporphyrinogen decarboxylase "mRNA", complete cds	201	121	155	148	32	257		
M14056 at	Human complement C1r "mRNA", complete cds	240	235	73	50	285	94		
M14091 at	Human thyroxine-binding globulin "mRNA", complete cds	24	20	20	39	20	20		
M14113 at	Human coagulation factor VIII C "mRNA", complete cds	40	20	20	20	20	20		
M14123 sp1 at	Human protease large subunit from Human endogenous retrovirus HERV-K10. (gp=M14123 myp+DNA/annol=CDS)	20	20	20	20	20	20		
M14123 sp2 at	Human endogenous retrovirus HERV-K10	93	54	36	20	54	20		
M14123 sp3 at	Human endogenous retrovirus HERV-K10	20	20	20	20	20	20		
M14123 sp4 at	Human endogenous retrovirus HERV-K10	66	44	20	45	20	214		
M14155 sp4 at	Human T-cell receptor gamma chain D1.1 and J1.1 to J1.8 genes.	38	28	20	20	20	169		
M14159 sp4 at	Human T-cell receptor gamma chain D2.1 and J2.1 to J2.7 genes.	32	20	20	20	20	20		
M14198 s at	Human lamin receptor (HLS epitopes) "mRNA", 5' end	3222	7240	6332	6160	1568	2332		
M14200 s at	Human discoidin binding protein (DBP) "mRNA", complete cds	394	214	196	239	367	453		
M14218 at	Human argininosuccinate lyase "mRNA", complete cds	113	49	20	22	20	20		
M14219 at	Human choroideremia-related sulfite proteoglycan (PC-40) core protein "mRNA", complete cds	86	20	25	20	47	75		
M14305 at	Human beta-A2M1-crystallin gene (Hs-beta-A2M1)	819	885	1518	2137	354	751		
M14328 s at	Human alpha enolase "mRNA", complete cds	20	20	20	20	20	20		
M14338 at	Human alpha enolase "mRNA", complete cds	20	20	20	20	20	20		
M14483 sp1 s at	Human alpha enolase "mRNA", complete cds	20	20	20	20	20	20		
M14539 at	Human factor XIII subunit a "mRNA", 3' end	641	1837	1401	886	307	948		
M14565 at	Human cholesterol side-chain cleavage enzyme P-450sc "mRNA", complete cds	88	25	20	20	20	48		
M14636 at	Human liver glycogen phosphorylase "mRNA", complete cds	73	35	20	83	20	77		
M14648 at	Human cell adhesion protein (vitronectin) receptor alpha subunit "mRNA", complete cds	20	20	20	57	20	20		
M14660 at	Human ISG-54K gene (interferon stimulated gene) encoding a 54 kDa protein	20	59	20	32	20	20		
M14678 at	Human arc-like kinase (alk) "mRNA", complete cds	66	213	165	128	375	285		
M14745 at	Human bcl-2 mRNA	26	94	260	96	255	85		
M14759 at	Human Polyprotein (MDR1) "mRNA", complete cds	20	42	20	20	20	20		
M14764 at	Human nerve growth factor receptor "mRNA", complete cds	20	20	20	20	229	169		
M14948 at	Human R-45 gene	20	23	20	20	135	20		
M15085 at	Human Fc-epsilon receptor (IgE receptor) "mRNA", complete cds (H107 epitope)	160	208	107	137	383	295		
M15105 at	Human beta-2-adrenergic receptor "mRNA", complete cds	96	171	322	191	482	209		
M15102 at	Human beta-glucuronidase "mRNA", complete cds	86	23	23	45	248	174		
M15205 at	Human tyrosine kinase "gene", complete cds, with clustered Alu repeats in the intron	20	20	20	20	20	20		
M15353 at	Human leukocyte adhesion protein "LFA-1/MSL-1p150.95" family beta subunit mRNA	20	20	20	20	20	20		
M15485 s at	Human PTPN22 kinase type 1 "mRNA", complete cds	20	26	20	20	123	110		
M15517 sp1 s at	TTR gene (transthyretin) extracted from Human mutant prealbumin gene directly linked to familial amyloidotic polyneuropathy (FAP)	20	81	80	38	271	51		
M15517 sp5 s at	Human mutant prealbumin gene directly linked to familial amyloidotic polyneuropathy (FAP), exon 4	20	20	20	20	265	20		
M15636 at	Human aldolase B (ALDOB) gene	20	20	20	20	20	20		
M15661 at	Human ribosomal protein "mRNA", complete cds	653	600	540	568	30	339		
M15780 at	Human DNA-dependent RNA polymerase type 16 (HPV) "DNA", right flank and viral host junction (gp=M15780 myp+DNA/annol)	20	20	20	20	71	20		
M15786 at	Human Echin protein "gene", complete cds	71	31	20	20	20	61		
M15941 at	Human U2 small nuclear RNA-associated B' antigen "mRNA", complete cds	70	33	20	23	20	20		
M15946 at	Human IL2 protein "mRNA", complete cds	20	49	20	20	20	20		
M15981 at	Human IL2 protein "mRNA", complete cds	20	40	20	20	104	20		
M15988 at	Human uroporphyrinogen decarboxylase (HUPD) "mRNA", complete cds	20	20	20	20	20	20		
M15990 at	Human Cys4-L "mRNA", complete cds	41	37	69	27	37	42		
M16038 at	Human Cys4-L "mRNA", complete cds	131	96	20	81	111	180		
M16276 at	Human MHC class II HLA-DR2-Dw12 mRNA "DQw1 beta", complete cds	88	285	20	20	20	20		
M16279 at	Human MIC2 "mRNA", complete cds	418	311	50	57	20	208		
M16336 s at	Human fragile X locus M3C containing an unidentified open reading "frame", 3' end	72	54	20	20	122	28		
M16342 at	Human T-cell surface antigen CD2 (T11) "mRNA", complete cds, clone PB1	20	401	20	20	20	142		
M16364 s at	Human nuclear ribonucleoprotein particle (hnRNP) C protein "mRNA", complete cds	201	374	768	608	387	393		
M16404 at	Human creatine kinase-B "mRNA", complete cds	20	20	20	20	20	20		
M16405 at	Human m2 muscarinic acetylcholine receptor gene	38	33	20	20	20	25		

[illegible]

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinoma

Gene Name	Accession Number	Expression Level	Other Data
Human protective protein "mRNA", complete cds	M22680 at	285	
Human glycophorin b5 "mRNA", 3' end	M22681 at	89	
Human ras-related protein (Krev-1) "mRNA", complete cds	M22682 at	76	
Homo sapiens calcium-ATPase (HK-1) "mRNA", complete cds	M22683 at	167	
Human transposon-like element mRNA	M22684 at	78	
Human homologue-1 of gene encoding alpha subunit of murine cyclin (Nip-1/SCC), complete cds	M22685 at	113	
Human differentiation antigen (CD33) "mRNA", complete cds	M22686 at	23	
Human membrane glycoprotein 2 (mdc3) "mRNA", complete cds	M22687 at	50	
Human Ca ²⁺ -activated neutral protease large subunit (CANP) "mRNA", complete cds	M22688 at	20	
Human androgen receptor "mRNA", complete cds	M22689 at	21	
Human beta-hexosaminidase beta-subunit (HEXB) gene	M22690 at	514	
Human membrane protein (CD3-eapall) gene	M22691 at	66	
Human GTPase-activating protein rat p21 (RAS) "mRNA", complete cds	M22692 at	193	
Human alpha-2 adrenergic receptor "gene", complete cds	M22693 at	30	
Human Cysylglycyl-specific beta-1 glycoprotein "mRNA", complete cds	M22694 at	20	
Human transferrin receptor "mRNA", complete cds	M22695 at	20	
Homo sapiens transferrin "mRNA", complete cds	M22696 at	146	
Human 15-hydroxyproline "mRNA", complete cds	M22697 at	20	
Human DNA-binding protein A (DnpA) "gene", 3' end	M22698 at	127	
Human myosin alkali light chain (ventricular) "mRNA", complete cds	M22699 at	32	
Human MYH protein homologous to chicken B complex protein "mRNA", complete cds	M22700 at	3379	
Homo sapiens MLC-1/5B isoform gene	M22701 at	64	
Human major group ribonucleic acid receptor (HRV) "mRNA", complete cds	M22702 at	61	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22703 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22704 at	51	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22705 at	21	
PIT-1L gene (parathyroid hormone-like protein A) extracted from human parathyroid tumor	M22706 at	20	
Human MHC class II lymphocyte antigen DOB "mRNA", complete cds	M22707 at	212	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22708 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22709 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22710 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22711 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22712 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22713 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22714 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22715 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22716 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22717 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22718 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22719 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22720 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22721 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22722 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22723 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22724 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22725 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22726 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22727 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22728 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22729 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22730 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22731 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22732 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22733 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22734 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22735 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22736 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22737 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22738 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22739 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22740 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22741 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22742 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22743 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22744 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22745 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22746 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22747 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22748 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M22749 at	20	
Human peritubular hormone-like protein (PLP) gene, exon 4, clones lambda-B-Pg(1.3.7.2)	M2275		

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas	
Human src-finger protein 7 (ZF7) "mRNA", complete cds	20
Human src-finger protein 8 (ZF8) "mRNA", 3' end	98
Human phosphoinositide 3-kinase "mRNA", complete cds	65
Human integrin alpha 1 (ITGA1) "mRNA", complete cds	42
Human cytochrome P450 11B (CYP11B) "mRNA", complete cds	20
Human alpha-L-fucosidase "mRNA", complete cds	246
Human ornithine aminotransferase gene	181
Human ornithine aminotransferase gene	147
Human beta-3-adenosine receptor gene	137
Human beta-3-adenosine receptor gene	69
Human steroid receptor (STR-11) "mRNA", complete cds	215
Human 6-O-methylguanine-DNA methyltransferase (MGMT) "mRNA", complete cds	51
Human alpha-1-spectrin "gene", exon 12 (p-M29954 mypse-DNA/annot-exon	56
Human P40 T-cell and mast cell growth factor (P40) "gene", complete cds	20
Human cholesterol ester transfer protein "mRNA", complete cds	20
Human vesicular cell adhesion molecule 1 "mRNA", complete cds	59
Human nidogen "mRNA", complete cds	82
Human ubiquitin carboxyl-terminal hydrolase (PQP "B.5", UCH-L3) isozyme L3 "mRNA", complete cds	239
Human src-finger protein 7 (ZF7) "mRNA", complete cds	33
Human src-finger protein 8 (ZF8) "mRNA", complete cds	30
Human integrin alpha 1 (ITGA1) "mRNA", complete cds	20
Human integrin alpha 1 (ITGA1) "mRNA", complete cds	160
Human integrin alpha 1 (ITGA1) "mRNA", complete cds	20
Human integrin alpha 1 (ITGA1) "mRNA", complete cds	20
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	Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas	304	122	600	397	80
M55621_at	Human N-acetylglucosaminyltransferase I (GNAT-1) "mRNA", complete cds	122	20	215	20	397
M55671_at	Human protein Z (plus 66 bp insertion) "mRNA", complete cds	100	20	20	20	109
M55683_s_at	Human cartilage matrix protein (CMP) gene	20	20	20	20	20
M55905_at	Human mitochondrial NAAD(P)+ dependent malic enzyme "mRNA", complete cds	20	20	20	20	20
M55968_s_at	Human alpha-1 collagen type I gene, 5' end	1610	1610	360	46	376
M57230_at	Human membrane glycoprotein gp130 "mRNA", complete cds	20	20	20	20	20
M57293_at	Human parathyroid hormone-related protein (PTHrP) gene, exons 1A...1B...1C, and 2/gp-M57293 "mRNA", complete cds	20	20	20	20	210
M57399_at	Human nerve growth factor (HBNF-1) "mRNA", complete cds	150	128	45	135	289
M57423_s_at	Human rat proto-oncogene "mRNA", complete cds	20	20	20	20	481
M57684_s_at	Human MHC class II HLA-DP light chain "mRNA", complete cds	23	312	41	20	20
M57666_s_at	Homo sapiens uretic oxidase (UOX) gene, exon 5/gp-M57471 "mRNA", complete cds	188	312	20	20	880
M57471_at	Homo sapiens creatine kinase (CK) gene, exon 5/gp-M57471 "mRNA", complete cds	29	20	20	20	92
M57506_mal_at	Human secreted protein (I-309) gene, complete cds	20	20	20	20	20
M57567_at	Human ADP-ribosylation factor (ARF5) "mRNA", complete cds	377	525	138	339	399
M57609_at	Human DNA-binding protein (GLD3) "mRNA", complete cds	20	49	20	539	387
M57703_s_at	Human melanin concentrating hormone (MCH) "mRNA", complete cds	20	20	71	55	46
M57710_at	Human EGF-binding protein (epilipo-BP) "mRNA", complete cds	1449	1035	1688	1046	852
M57730_at	Human B6 "mRNA", complete cds	20	154	20	163	103
M57731_at	Human globins "mRNA", complete cds	42	45	20	578	20
M57721_at	Human hepatic nuclear factor 1 (TCF1) "mRNA", complete cds; clones TCF1.10, TCF1.12, TCF1.17, and TCF1.20	20	118	20	38	281
M57763_at	Human ADP-ribosylation factor (ARF6) "mRNA", complete cds	222	50	120	101	20
M57692_at	Human carbonic anhydrase isoenzyme VI (CA6) "mRNA", complete cds	20	20	20	20	20
M58026_at	Human NB-1 "mRNA", complete cds	573	122	216	214	172
M58028_at	Human ubiquitin-activating enzyme E1 (UBE1) "mRNA", complete cds	213	360	216	497	434
M58285_at	Human membrane-associated protein (HEM-1) "mRNA", complete cds	62	293	105	302	211
M58286_s_at	Homo sapiens tumor necrosis factor receptor "mRNA", complete cds	113	107	32	137	83
M584297_at	Human zinc finger protein 42 (ZFP-1) "mRNA", complete cds	20	20	20	20	20
M584376_cds1_at	Human synapsin I (SYN1) gene, exon 13	49	208	20	284	322
M58450_at	Human ribosomal protein (RPS4V) isoform "mRNA", complete cds	22	271	411	271	124
M58460_at	Human 7S-40 autoantigen (PM-Scl) "mRNA", complete cds	20	20	20	20	20
M58509_cds1_s_at	FDXR gene (adrenonodular reductase) extracted from Human adrenonodular reductase gene	20	20	20	20	20
M58525_s_at	Homo sapiens calichest-O-methyltransferase (COMT) "mRNA", complete cds	92	256	1065	1134	328
M58563_at	Human fibronogen alpha-subunit bipartite transcript, complete cds of extended (alpha-E) variant	41	65	57	77	20
M58583_at	Human procerebellin and cerebellin "mRNA", complete cds	20	25	25	604	20
M58597_at	Human ELAM-1 ligand fucosyltransferase (ELFT) "mRNA", complete cds	20	20	20	75	20
M58603_at	Human heparin cofactor II (HCF2) gene, exons 1 through 5	43	20	20	382	20
M58216_s_at	Human nuclear factor kappa-B DNA binding subunit (NF-kappa-B) "mRNA", complete cds	202	138	37	110	20
M58371_at	Human gamma-aminobutyric acid-A (GABA-A) receptor beta-1 subunit	56	62	43	458	128
M58465_at	Human protein tyrosine kinase "mRNA", complete cds	170	60	30	537	188
M58466_at	Human tumor necrosis factor alpha inducible protein A20 "mRNA", complete cds	280	165	109	207	242
M58499_at	Human S100 protein beta-subunit gene	20	168	20	86	126
M58607_at	Human fibronectin-associated coagulation inhibitor (LACI) gene	56	20	22	123	20
M58615_at	Human NK4 "mRNA", complete cds	597	546	682	442	1118
M58616_at	Human complement component C4A gene	337	250	20	209	407
M58620_at	Human granulocyte colony-stimulating factor receptor (CSF-3R) "mRNA", complete cds	20	20	20	20	26
M58626_at	Human MHC class III HSP70-HOM gene ("HLA"), complete cds	46	20	20	73	189
M58630_at	Human MHC class III HSP70-2 gene ("HLA"), complete cds	133	68	325	176	28
M58911_at	Human integrin alpha-3 chain "mRNA", complete cds	36	88	172	150	120
M58916_at	Human acid sphingomyelinase (ASM) "mRNA", complete cds	115	20	20	136	185
M58941_at	Human G-CSF receptor beta chain "mRNA", complete cds	20	20	20	20	25
M58984_at	Human stem cell factor "mRNA", complete cds	20	20	20	20	31
M58979_at	Human prostaglandin endoperoxide synthase "mRNA", complete cds	20	20	20	20	20
M60047_at	Human perlecan binding protein (HBP1) "mRNA", complete cds	947	20	20	28	20
M60062_at	Human heparin-4-ch calcium binding protein (HRC) "mRNA", complete cds	197	338	188	275	620
M60091_at	Human plasminogen activator inhibitor-1 (PAI-1) "mRNA", complete cds	20	20	20	20	20
M60092_at	Human tyrosine kinase domain (MAPP1) "mRNA", complete cds	20	20	20	20	20
M60094_mal_at	Human reticulo H1 histone (H1) gene, complete cds	20	20	20	20	20
M60165_cds1_at	Human guanine nucleotide-binding regulatory protein (G-alpha) gene, exon 9	56	39	62	64	37
M60276_at	Human heparin-binding EGF-like growth factor "mRNA", complete cds	113	112	217	234	268
M60278_s_at	Human neurokinin A receptor (NK-2R) gene	308	38	20	99	278
M60284_s_at	Human erythrocyte membrane protein band 4.2 (EPB4.2) "mRNA", complete cds	25	59	108	74	185
M60298_at	Human alpha-1 collagen type I gene, exons 1, 2 and 3/gp-M60299 "mRNA", complete cds	27	41	20	158	68
M60309_at	Human transforming growth factor-beta (tgf-beta) "mRNA", complete cds	29	20	20	304	20
M60314_at	Human transforming growth factor-beta (tgf-beta) "mRNA", complete cds	24	36	20	20	20
M60315_at	Human transforming growth factor-beta (tgf-beta) "mRNA", complete cds	20	20	20	20	20
M60331_at	Human prolamine 1 gene, complete cds	75	44	20	108	242
M60450_s1_at	Human voltage-gated potassium channel (HK1) "mRNA", complete cds	20	20	20	308	20

	Expressed RNA in Subareolar connective tissue, Normal urothelium and Transitional cell carcinomas	60	60	81	121	129
M504_19_at	Human erythropoietin receptor "mRNA", complete cds	92	48	61	20	129
M504_13_ma_x_at	protein phosphatase-2A catalytic subunit-alpha gene extracted from Human; protein phosphatase-2A catalytic subunit-alpha "gene", comp	92	48	61	20	129
M50503_at	Human profilaggrin "gene", partial cds	90	20	34	20	20
M50537_at	Human deoxycytidine kinase "mRNA", complete cds	90	22	20	37	20
M50556_ma_2_at	Human transforming growth factor beta-3 gene, 5' end.	90	20	20	20	20
M50614_at	Human Wnt1 tumor (WNT-1) associated protein "mRNA", complete cds	90	20	20	363	20
M50626_at	Human N-tormyoplasmin receptor (NLRP-RS8) "mRNA", complete cds	90	20	83	20	20
M50628_at	Human homeobox "gene", complete cds	90	20	20	20	20
M50724_at	Human p10 ribosomal S6 kinase alpha-1 "mRNA", complete cds	105	20	25	99	28
M50746_at	Human histone H3.1 (HIF3) "gene", complete cds	20	20	20	33	33
M50748_at	Human histone H4 (H4F) "gene", complete cds	20	20	21	20	20
M50749_at	Human histone H4 (H4) "gene", complete cds	53	20	58	83	211
M50750_at	Human histone H2B.1 (H2B) "gene", complete cds; gp=M50750 mybp=DNA; lcnmd=CD5	20	20	20	20	20
M50751_at	Human histone H2B.1 (H2B) "gene", complete cds	45	20	20	45	154
M50752_at	Human histone H2A.1 (H2A) "gene", complete cds	20	20	20	20	20
M50753_at	Human U1 snRNP-specific protein A "gene", complete cds	20	20	20	20	20
M50754_at	Human keratinocyte growth factor "mRNA", complete cds	20	20	20	20	20
M50755_at	Human keratinocyte growth factor "mRNA", complete cds	20	20	20	20	20
M50756_at	Human fibronectin protein 516 "mRNA", complete cds	4473	3546	5176	1828	3833
M50757_at	Human nucleolin "gene", complete cds	90	20	20	20	308
M50758_at	Human apurinic/aprimidinic deaminase (URO-D) "gene", partial cds; gp=M50891 mybp=DNA; lcnmd=mRNA	90	20	20	20	308
M50891_at	Human surface antigen "mRNA", complete cds	518	585	341	585	341
M50922_at	Human growth arrest and DNA-damage-inducible protein (GADD45) "mRNA", complete cds	88	62	162	253	113
M50974_at	Human activator protein 2B (AP-2B) "mRNA", complete cds	96	20	20	20	20
M51150_at	Human brain-derived neurotrophic factor (BDNF) "mRNA", complete cds	55	20	20	20	61
M51176_at	Human cleavage signal 1 protein "mRNA", complete cds	59	58	20	20	51
M51195_at	Homo sapiens erythrocyte membrane protein 4.1 "mRNA", complete cds	28	112	90	20	48
M51732_at	Human gamma-tubulin "mRNA", complete cds	20	93	61	20	250
M51764_at	Human alpha-spectrin "gene", complete cds	20	20	20	85	40
M51826_s_at	Human leukosialin (CD43) "gene", complete cds	20	20	147	196	209
M51827_ma_1_at	Human S-adenosylhomocysteine hydrolase (AHCV) "mRNA", complete cds	71	106	227	256	129
M51853_at	Human cyclochrome P450C1B (CYP2C1B) "mRNA", clone 6b	77	21	24	55	57
M51855_at	Human cyclochrome P450C9 (CYP2C9) "mRNA", clone 25	20	20	20	20	20
M51908_at	Human P13-kinase associated p85 mRNA sequence	20	20	40	77	20
M51915_at	Human lamin B1 chain "mRNA", complete cds	69	87	166	149	20
M52202_at	Human growth/differentiation factor 1 (GDF-1) "mRNA", complete cds	105	20	36	20	81
M52203_at	Human retinoic acid receptor-beta associated open reading frame; Complete sequence	20	20	20	20	20
M52293_at	Human modulator recognition factor 1 (MRF-1) "mRNA", 3' end	84	107	154	57	213
M52397_at	Human colorectal mutant cancer protein "mRNA", complete cds	60	70	43	20	65
M52400_at	Human gamma-aminobutyric acid receptor type A mo-1 subunit (GABA-A mo-1) "mRNA", complete cds	20	20	20	34	20
M52402_at	Human insulin-like growth factor binding protein 8 (IGFBP8) "mRNA", complete cds	330	110	77	133	47
M52403_ma_1_at	Human insulin-like growth factor binding protein 4 (IGFBP4) "mRNA", complete cds	337	648	942	133	50
M52424_at	Human thrombin receptor "mRNA", complete cds	20	20	20	20	20
M52466_at	Human Cdc-binding protein gene	60	20	99	38	61
M52505_at	Human Csa anaphylatoxin receptor "mRNA", complete cds	20	20	20	20	20
M52628_s_at	Human alpha-1 Ig germline C-region membrane coding "region", 3' end	20	20	20	20	20
M52762_at	Human vesicular H+ATPase proton channel subunit "mRNA", complete cds	283	200	315	269	104
M52765_at	Homo sapiens insulin-like growth factor binding protein 5 (IGFBP-5) "mRNA", complete cds	20	20	20	20	20
M52767_at	Human alpha-N-acetylgalactosaminidase "mRNA", complete cds	103	67	123	106	222
M52783_at	Human S2-40 SS-WRO adenocarcinoma "mRNA", complete cds	20	20	20	20	20
M52800_at	Human mitochondrial transcription factor 1 "mRNA", complete cds	20	20	69	35	56
M52810_at	Human transcription factor ETR101 "mRNA", complete cds	180	291	214	156	65
M52831_at	Human epsilon-glycoprotein "mRNA", complete cds	20	20	20	20	124

Accession	Gene	Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas	228	219	302	251	20	229
M33483_at	Human major nuclear matrix protein mRNA		20	219	302	251	20	229
M33488_at	Human replication protein A (RPA) subunit mRNA, complete cds		20	20	20	20	20	20
M33513_at	Human secreted cyclophilin-like protein (SCYLP) mRNA, complete cds		213	105	242	515	20	20
M33517_at	Human preproreninogen-releasing hormone gene		74	105	147	163	163	163
M33519_at	Human stem cell leukemia gene product		103	32	53	22	300	156
M33520_at	Human phosphatidase mRNA, complete cds		67	73	73	25	79	300
M33521_at	Human oligodendrocyte-myelin glycoprotein (OMGP) mRNA, complete cds		57	20	20	23	20	20
M33522_at	Human Ig Fc receptor 1 gene		20	20	20	20	20	20
M33523_at	Human interferon-gamma induced protein (IF116) gene, complete cds		73	110	152	50	20	20
M33524_at	Human septin transmembrane enhancer factor (TEF1) mRNA, complete cds		97	20	20	20	20	20
M33525_at	Human G-alpha 16 protein mRNA, complete cds		120	20	20	20	20	20
M33526_at	Human alpha 2-macroglobulin receptor-associated protein mRNA, complete cds		188	270	294	457	288	184
M33527_at	Human gastric H,K-ATPase catalytic subunit gene, complete cds		21	20	20	20	20	20
M33528_at	Human mitochondrial eukaryotic dehydrogenase 1 gene, complete cds		22	93	20	73	178	20
M33529_at	Human lamin-containing monoxygenase (LMO1) mRNA, complete cds		197	256	180	206	95	95
M33530_at	Human gamma-glutamyl transaminase-binding protein (HBP) mRNA, complete cds		134	97	133	111	103	103
M33531_at	Human actin 1 mRNA, 3' end		20	20	20	20	20	20
M33532_at	Human protein tyrosine kinase (LAK1) mRNA, complete cds		20	20	20	20	20	20
M33533_at	Human peroxisome biogenesis gene, complete cds		20	20	20	20	20	20
M33534_at	Human novel growth factor receptor mRNA, 3' cds		198	253	1679	1128	133	133
M33535_at	Human rhon-3 gene, exon 10b-10c-359 mypca-DNA tandem-rep		28	127	135	128	20	20
M33536_at	Human apolipoprotein A1 regulatory protein (ARP-1) mRNA, complete cds		20	63	33	22	20	20
M33537_at	Human factor XIII b subunit gene, complete cds		20	197	208	176	47	98
M33538_at	Human microtubule-associated protein 4 mRNA, complete cds		20	88	126	120	21	226
M33539_at	Human protein tyrosine phosphatase mRNA, complete cds		44	52	55	37	89	39
M33540_at	Human glycine decarboxylase mRNA, complete cds		20	20	20	20	20	20
M33541_at	Human small G protein (Gx) mRNA, 3' end		126	157	20	20	20	20
M33542_at	Human heat shock factor 1 (TCF5) mRNA, complete cds		42	20	20	20	20	20
M33543_at	Human K+ channel subunit gene, complete cds		20	20	20	20	20	20
M33544_at	Human ribosomal protein S25 mRNA, complete cds		3228	3345	5463	2397	1282	1554
M33545_at	Human glutamate receptor subunit (GluR1) mRNA, complete cds		20	38	20	20	20	20
M33546_at	Human GTPase activating protein (rap GAP) mRNA, complete cds		106	64	20	28	20	20
M33547_at	Human peroxisomal erythrocyte membrane protein (PEP1) mRNA, complete cds		124	20	106	68	20	20
M33548_at	Human protein phosphatase 21 alpha subunit mRNA, complete cds		20	20	20	20	20	20
M33549_at	Human protein phosphatase 2A beta subunit mRNA, complete cds		74	57	56	143	410	370
M33550_at	Human tel blood group protein mRNA		210	90	238	174	113	116
M33551_at	Human sialinase reductase acid-inducible endogenous retroviral DNA		20	20	20	20	20	20
M33552_at	Human insulin-like growth factor binding protein 5 (IGFBP-5) mRNA, complete cds		98	75	20	20	20	20
M33553_at	Human CAMP-dependent protein kinase regulatory subunit beta mRNA, 3' end		63	102	138	105	237	141
M33554_at	Human follicle stimulating hormone receptor mRNA, complete cds		70	20	78	55	35	156
M33555_at	Human methylmalonyl-CoA mutase (MCM) mRNA, complete cds		40	26	74	30	100	39
M33556_at	Human complement component C5 mRNA, 3' end		20	20	20	20	20	20
M33557_at	Human endothelin 2 (ET2) mRNA, complete cds		72	72	65	64	33	33
M33558_at	Human heat shock factor 2 (HSF2) mRNA, complete cds		89	145	200	158	240	240
M33559_at	Protein phosphatase 2A 85 kDa regulatory subunit beta mRNA, complete cds		20	20	20	20	20	20
M33560_at	Human natural killer cell stimulatory factor (NKSF) mRNA, complete cds, clone p40		43	86	20	59	88	173
M33561_at	Human natural killer cell stimulatory factor (NKSF) mRNA, complete cds, clone p35		251	394	389	377	35	35
M33562_at	Human factor H homologue mRNA, complete cds		20	20	20	20</		

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[illegible]

Gene	Accession	Length	GC	GC3	GC3+4	GC3+5	GC3+6	GC3+7	GC3+8	GC3+9	GC3+10	GC3+11	GC3+12	GC3+13	GC3+14	GC3+15	GC3+16	GC3+17	GC3+18	GC3+19	GC3+20	GC3+21	GC3+22	GC3+23	GC3+24	GC3+25	GC3+26	GC3+27	GC3+28	GC3+29	GC3+30	GC3+31	GC3+32	GC3+33	GC3+34	GC3+35	GC3+36	GC3+37	GC3+38	GC3+39	GC3+40	GC3+41	GC3+42	GC3+43	GC3+44	GC3+45	GC3+46	GC3+47	GC3+48	GC3+49	GC3+50	GC3+51	GC3+52	GC3+53	GC3+54	GC3+55	GC3+56	GC3+57	GC3+58	GC3+59	GC3+60	GC3+61	GC3+62	GC3+63	GC3+64	GC3+65	GC3+66	GC3+67	GC3+68	GC3+69	GC3+70	GC3+71	GC3+72	GC3+73	GC3+74	GC3+75	GC3+76	GC3+77	GC3+78	GC3+79	GC3+80	GC3+81	GC3+82	GC3+83	GC3+84	GC3+85	GC3+86	GC3+87	GC3+88	GC3+89	GC3+90	GC3+91	GC3+92	GC3+93	GC3+94	GC3+95	GC3+96	GC3+97	GC3+98	GC3+99	GC3+100	GC3+101	GC3+102	GC3+103	GC3+104	GC3+105	GC3+106	GC3+107	GC3+108	GC3+109	GC3+110	GC3+111	GC3+112	GC3+113	GC3+114	GC3+115	GC3+116	GC3+117	GC3+118	GC3+119	GC3+120	GC3+121	GC3+122	GC3+123	GC3+124	GC3+125	GC3+126	GC3+127	GC3+128	GC3+129	GC3+130	GC3+131	GC3+132	GC3+133	GC3+134	GC3+135	GC3+136	GC3+137	GC3+138	GC3+139	GC3+140	GC3+141	GC3+142	GC3+143	GC3+144	GC3+145	GC3+146	GC3+147	GC3+148	GC3+149	GC3+150	GC3+151	GC3+152	GC3+153	GC3+154	GC3+155	GC3+156	GC3+157	GC3+158	GC3+159	GC3+160	GC3+161	GC3+162	GC3+163	GC3+164	GC3+165	GC3+166	GC3+167	GC3+168	GC3+169	GC3+170	GC3+171	GC3+172	GC3+173	GC3+174	GC3+175	GC3+176	GC3+177	GC3+178	GC3+179	GC3+180	GC3+181	GC3+182	GC3+183	GC3+184	GC3+185	GC3+186	GC3+187	GC3+188	GC3+189	GC3+190	GC3+191	GC3+192	GC3+193	GC3+194	GC3+195	GC3+196	GC3+197	GC3+198	GC3+199	GC3+200	GC3+201	GC3+202	GC3+203	GC3+204	GC3+205	GC3+206	GC3+207	GC3+208	GC3+209	GC3+210	GC3+211	GC3+212	GC3+213	GC3+214	GC3+215	GC3+216	GC3+217	GC3+218	GC3+219	GC3+220	GC3+221	GC3+222	GC3+223	GC3+224	GC3+225	GC3+226	GC3+227	GC3+228	GC3+229	GC3+230	GC3+231	GC3+232	GC3+233	GC3+234	GC3+235	GC3+236	GC3+237	GC3+238	GC3+239	GC3+240	GC3+241	GC3+242	GC3+243	GC3+244	GC3+245	GC3+246	GC3+247	GC3+248	GC3+249	GC3+250	GC3+251	GC3+252	GC3+253	GC3+254	GC3+255	GC3+256	GC3+257	GC3+258	GC3+259	GC3+260	GC3+261	GC3+262	GC3+263	GC3+264	GC3+265	GC3+266	GC3+267	GC3+268	GC3+269	GC3+270	GC3+271	GC3+272	GC3+273	GC3+274	GC3+275	GC3+276	GC3+277	GC3+278	GC3+279	GC3+280	GC3+281	GC3+282	GC3+283	GC3+284	GC3+285	GC3+286	GC3+287	GC3+288	GC3+289	GC3+290	GC3+291	GC3+292	GC3+293	GC3+294	GC3+295	GC3+296	GC3+297	GC3+298	GC3+299	GC3+300	GC3+301	GC3+302	GC3+303	GC3+304	GC3+305	GC3+306	GC3+307	GC3+308	GC3+309	GC3+310	GC3+311	GC3+312	GC3+313	GC3+314	GC3+315	GC3+316	GC3+317	GC3+318	GC3+319	GC3+320	GC3+321	GC3+322	GC3+323	GC3+324	GC3+325	GC3+326	GC3+327	GC3+328	GC3+329	GC3+330	GC3+331	GC3+332	GC3+333	GC3+334	GC3+335	GC3+336	GC3+337	GC3+338	GC3+339	GC3+340	GC3+341	GC3+342	GC3+343	GC3+344	GC3+345	GC3+346	GC3+347	GC3+348	GC3+349</
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Expressed RNA in Subcutaneous connective tissue, Normal urothelium and Transitional cell carcinoma											
		20	20	20	20	20	20	20	20	20	20
M83772 at	Human flavin-containing monooxygenase form II (FMO2) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M83922 at	Human beige-like protein (BGL) "mRNA", partial cds	20	20	20	20	20	20	20	20	20	20
M83941 at	Human receptor tyrosine kinase (HEK) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M84332 at	Human ADP-ribosyltransferase 1 gene	767	370	1019	590	490	490	490	490	490	490
M84349 at	Human transmembrane protein (CD59) gene	286	415	287	169	428	20	20	20	20	20
M84371 na1 s at	Human CD19 "gene", complete cds	20	20	20	20	20	20	20	20	20	20
M84424 at	Human cathepsin E (CTSE) gene	1875	2281	20	300	413	136	30	30	30	30
M84526 at	Human adiponectin complement factor D "mRNA", complete cds	50	20	20	20	20	20	20	20	20	20
M84605 at	Human putative oligodendrocyte "mRNA", complete cds	3651	3365	5586	3824	595	65	93	287	287	287
M84711 at	Human k-18 transformation effector protein (Fle-1) "mRNA", complete cds	239	108	20	20	20	20	20	20	20	20
M84739 at	Human autoantigen cathepsin "mRNA", complete cds	45	74	20	20	20	20	20	20	20	20
M85025 at	Human retinoid X receptor beta (RXR-beta) "mRNA", complete cds	97	74	20	20	20	20	20	20	20	20
M85164 at	Human cleavage stimulation factor, complete cds	44	27	60	43	20	20	20	20	20	20
M85165 at	Human sapiens SFR accessory protein 19 (SAP-19) "mRNA", complete cds	36	20	55	20	33	63	33	20	20	20
M85169 at	Human sapiens SFR accessory protein 1A (SAP-1) "mRNA", complete cds	80	20	20	20	20	20	20	20	20	20
M85217 at	Human homolog of yeast sec7 "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M85220 at	H sapiens k+ channel protein (KALX) "mRNA", complete cds	22	496	20	20	20	20	20	20	20	20
M85247 at	Human heavy chain disease Iga chain "gene", C-H3 region with a 369 bp deletion, 3' end	93	141	20	20	20	20	20	20	20	20
M85276 at	H sapiens dopamine D1A receptor "gene", complete exon 1, and exon 2, 5' and 3' UTR	50	120	20	20	20	20	20	20	20	20
M85289 at	Human heparan sulfate proteoglycan (HSPG2) "mRNA", complete cds	33	171	20	20	20	20	20	20	20	20
M85383 at	H sapiens nicotinic acetylcholine receptor alpha 3 subunit "mRNA", complete cds	28	20	20	20	20	20	20	20	20	20
M85400 at	Human phospholipase A2 "mRNA", complete cds	1653	387	1250	1058	399	1550	1550	1550	1550	1550
M85406 at	Human phospholipase A2 "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M85407 at	Human sapiens alpha actinin 3 (ACTN3) "mRNA", complete cds	20	36	20	20	20	20	20	20	20	20
M85426 at	Human neurotrophin-4 (NT-4) "gene", complete cds	200	150	192	120	199	268	268	268	268	268
M85510 at	H sapiens PRX1a and PRX1b "mRNA", complete cds	140	189	194	156	315	243	243	243	243	243
M8566 at	H sapiens MAP (microtubule assembly protein) "mRNA", complete cds	233	166	342	252	184	242	242	242	242	242
M8571 at	Human kinase (TK) "mRNA", complete cds	20	32	20	20	20	20	20	20	20	20
M8571 at	Human sapiens myristoyl CoA-protein N-myristoyltransferase mRNA	20	56	104	90	23	128	128	128	128	128
M8571 at	Human high mobility group box (SSRP1) "mRNA", complete cds	32	20	147	141	254	234	234	234	234	234
M8572 at	Human transformation-sensitive protein (IEF SSP 3521) "mRNA", complete cds	106	20	20	20	20	20	20	20	20	20
M8573 at	Human pyruvate dehydrogenase complex (PDH2) "gene", complete cds	10368	20	20	20	20	20	20	20	20	20
M85809 at	Human IGF binding protein complex acid-labile subunit "mRNA", complete cds	28	20	20	20	20	20	20	20	20	20
M85826 at	Human connexin 26 (GJB2) mRNA	75	20	20	20	20	20	20	20	20	20
M85849 at	H sapiens peroxisome assembly factor-1 "mRNA", complete cds	675	20	20	20	20	20	20	20	20	20
M85852 at	Human gamma amino butyric acid (GABA m2) gene "mRNA", complete cds	43	20	20	20	20	20	20	20	20	20
M85858 at	H sapiens type A plasminogen related gene	30	20	20	20	20	20	20	20	20	20
M85873 at	H sapiens type A plasminogen related gene	22	24	20	20	20	20	20	20	20	20
M85917 at	Human oxysterol-binding protein (OSBP) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M85933 at	Human amelogenin (AMELY) "mRNA", complete cds	56	20	20	20	20	20	20	20	20	20
M85934 at	Human CS1 (protein of unknown function) "mRNA", complete cds	113	202	212	188	130	156	47	47	47	47
M85978 at	Human 69 kDa 2'5' oligoadenylate synthetase (Psg 2.5A synthetase) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M87313 at	Human sapiens myristoyl protein kinase (DM) mRNA	20	20	20	20	20	20	20	20	20	20
M87339 at	Human replication factor C, 40-kDa subunit "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M87436 at	Human replication factor C, 37-kDa subunit "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M87496 at	Human 71 kDa 2'5' oligoadenylate synthetase (Psg 2.5A synthetase) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M87505 at	Human uracil-DNA glycosylase (UNG) "gene", complete cds	20	20	20	20	20	20	20	20	20	20
M87507 at	Human IFN-responsive transcription factor subunit "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M87769 at	Human sapiens interferon-beta convertase (IL1BCE) "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M87770 at	Human (hyaluronidase H210) anti-hepatitis A IgG variable "region", complementarily determining regions "mRNA", complete cds	3447	1078	20	20	20	20	20	20	20	20
M87800 at	Human S-lac lectin L-14-II (LGALS2) gene	91	53	20	20	20	20	20	20	20	20
M88106 at	Human p22 "mRNA", complete cds	112	88	297	266	78	160	160	160	160	160
M88163 at	Human global transcription activator homologous sequence "mRNA", complete cds	34	74	130	23	25	350	350	350	350	350
M88279 at	Human immunophilin (FKBP52) "mRNA", complete cds	276	428	373	352	450	27	27	27	27	27
M88338 at	Human tacitin protein (MSE55) "mRNA", complete cds	24	122	20	20	20	20	20	20	20	20
M88458 at	Human serum constituent protein (MSE55) "mRNA", complete cds	391	283	93	354	480	510	510	510	510	510
M88461 at	Human ELP-1 mRNA sequence	265	133	317	227	352	251	251	251	251	251
M88476 at	Human neuropilin Y peptide Y7 receptor "mRNA", complete cds	20	20	20	20	20	20	20	20	20	20
M88576 at	Human zinc finger protein (SRE-2BP) "mRNA", 3' end	536	317	229	523	697	511	511	511	511	511
M88470 at	Human paired-box protein (PAX2) "mRNA", complete cds	62	89	66	20	20	20	20	20	20	20
M89473 at	Human neurotrophin 3 receptor (NGFR) "mRNA", complete cds	30	20	20	20	20	20	20	20	20	20
M89766 na1 at	Human high affinity IgE receptor beta chain gene, complete cds	174	135	305	131	156	260	260	260	260	260
M89914 s at	Human neurofibromin (NF1) "gene", complete cds	20	20	20	20	20	20	20	20	20	20

Expressed RNA in Subcutaneous connective tissue, Normal urothelium and Transitional cell carcinomas																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Gene	Accession	Length	Start	End	Strand	Orientation	Feature
Human recombinase activating protein (RA-G2) "gene", last exon, <i>igf1</i> - <i>RA-G23</i> <i>intra</i> - <i>CDNA</i> , <i>gapped</i> - <i>exon</i>	U00001	20	23	50	107	78	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00002	2525	172	1517	288	223	
Human MHC class I (HLA-B*0101) mRNA	U00003	1095	1091	1748	408	1612	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00004	20	20	20	209	194	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00005	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00006	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00007	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00008	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00009	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00010	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00011	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00012	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00013	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00014	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00015	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00016	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00017	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00018	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00019	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00020	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00021	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00022	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00023	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00024	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00025	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00026	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00027	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00028	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00029	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00030	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00031	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00032	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00033	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00034	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00035	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00036	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00037	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00038	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00039	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00040	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00041	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00042	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00043	20	20	20	20	20	
Human lary acid binding protein homologue (PA-FABP) "mRNA", complete cds	U00044	20	20	20	20	20	</

[illegible]

Side 52

[illegible]

[illegible]

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas						
		43	90	71	90	41
U02632_at	Human calcium-activated potassium channel "mRNA", partial cds	116	72	208	69	224
U02680_at	Human protein tyrosine kinase "mRNA", complete cds	20	20	20	20	20
U02683_at	Human alpha tyrosine kinase "mRNA", complete cds	20	20	20	20	20
U02687_at	Human growth factor receptor tyrosine kinase (STK-1) "mRNA", complete cds	20	20	20	20	20
U03061_at	Human tumor suppressor (LUC-1) "mRNA", complete cds	20	70	957	54	51
U03067_at	Human actin binding protein (HSN) "mRNA", complete cds	430	643	957	54	412
U03080_at	Human Ca2+-dependent phospholipase A2 "mRNA", complete cds	37	62	20	20	20
U03100_at	Human alpha(E)-casein "mRNA", complete cds	189	105	274	190	24
U03105_at	Human B4-2 protein "mRNA", complete cds	191	52	20	94	29
U03167_at	Human IL12 receptor component "mRNA", complete cds	20	20	20	56	20
U03270_at	Human ceritin "mRNA", complete cds	133	200	173	197	432
U03272_at	Human fibrillin-2 "mRNA", complete cds	83	56	99	39	48
U03274_at	Human botulinase "mRNA", complete cds	20	20	20	20	20
U03397_at	Human receptor protein 4-1BB "mRNA", complete cds	33	80	126	46	119
U03398_at	Human receptor protein 4-1BB ligand "mRNA", complete cds	377	500	357	375	1824
U03399_at	Human T-complex protein 10A (TCP10A) "mRNA", complete cds	312	507	505	488	248
U03486_at	Human connexin40 "mRNA", complete cds	122	158	202	105	220
U03494_at	Human transcription factor LSF "mRNA", complete cds	20	73	20	20	20
U03534_at	Human P47 LBC oncogene "mRNA", complete cds	72	45	20	37	74
U03542_at	Human G protein-coupled receptor APJ "mRNA", complete cds	61	102	43	46	20
U03544_at	Human receptor "mRNA", complete cds	172	116	26	20	234
U03568_at	Human diacylglycerol cytochrome P450 (CYP1B1) "mRNA", complete cds	61	102	43	46	20
U03735_at	Human MAG-3 antigen (MAGE-3) "mRNA", complete cds	20	20	20	20	20
U03751_at	Human capping protein alpha "mRNA", complete cds	61	32	20	39	20
U03759_at	Human fibronectin "mRNA", complete cds	20	20	20	20	20
U03777_at	Human extracellular protein (S1-5) "mRNA", complete cds	27	35	34	20	31
U03886_at	Human GS2 "mRNA", complete cds	182	130	134	183	293
U03891_at	Human monocyte chemoattractant protein 1 receptor (MCP-1R) alternatively spliced "mRNA", complete cds	20	20	20	20	20
U03903_at	Human mutant gene (MMSH2) "mRNA", complete cds	40	20	20	20	20
U03911_at	Human associated microfibrillar protein "mRNA", complete cds	40	20	20	20	20
U04209_at	Human homolog of Drosophila enhancer of split mslm10 "mRNA", complete cds	40	20	20	20	20
U04241_at	Human tumor of Drosophila channel subunit (h-erg) "mRNA", complete cds	343	659	729	919	881
U04270_at	Human lysosomal acid lipase, cholesterol ester hydrolase (LIPA) gene	20	20	20	20	20
U04285_at	Human maspin "mRNA", complete cds	42	20	20	20	20
U04313_at	Human pregnancy-specific beta-1-glycoprotein alternatively spliced C-R, C-S, C-B, and C-A domains (PSG1) gene, partial cds	667	119	611	254	139
U04325_at	Human CD86 antigen "mRNA", complete cds	20	20	71	20	20
U04326_at	Human type IV collagen alpha chain (COL4A5) gene	67	57	161	57	20
U04329_at	Human cyclooxygenase-2 (COX-2) "mRNA", complete cds	46	20	82	20	20
U04723_at	Human microtubular stress 70 protein ATPase core (stid) "mRNA", complete cds	184	25	78	100	47
U04808_at	Human testin "mRNA", complete cds	27	46	20	20	20
U04810_at	Human tropomyosin "mRNA", complete cds	20	30	28	50	257
U04811_at	Human oncofetal ventral antigen-1 (Nerve-1) "mRNA", complete cds	51	35	20	51	98
U04840_at	Human integrin alpha "mRNA", complete cds	37	73	27	28	20
U04847_at	Human histidine kinase "mRNA", complete cds	20	20	20	20	20
U04896_at	Human orphan hormone nuclear receptor RORalpha2 "mRNA", complete cds	84	20	20	20	20
U05012_at	Human receptor tyrosine kinase TrkC (NTRK3) "mRNA", complete cds	20	20	20	20	20
U05040_at	Human FUSE binding protein "mRNA", complete cds	20	20	20	20	20
U05227_at	Human Ras protein "mRNA", complete cds	68	99	84	20	20
U05237_at	Human fetal A1-50-reactive clone 1 (FAC1) "mRNA", complete cds	33	43	146	133	91
U05255_at	Human glycophorin HeP2 "mRNA", partial cds	20	20	20	20	20
U05255_at	Human MB-1 gene, complete cds	20	20	20	20	20
U05259_at	Human fibronectin "mRNA", partial cds	34	82	20	108	20
U05261_at	Human x-linked PEST-containing transporter (XPC1) gene, promoter and	123	118	175	86	199
U05321_at	Human p55CDC "mRNA", complete cds	20	20	20	20	20
U05340_at	Human ribosomal alpha mannosidase (MANB) "mRNA", complete cds	161	208	38	20	20
U05340_at	Human ribosomal protein S1 homolog "mRNA", partial cds	30	20	20	20	20
U05349_at	Human 17 beta-hydroxysteroid dehydrogenase 12C "mRNA", complete cds	20	20	20	20	20
U05361_at	Human proteoglycan BGL3 gene	33	266	234	223	54
U05375_at	Human hepatic chylomicron chylidogenesis gene	221	209	363	363	363
U05375_at	Human clone pSK1 insertion gamma receptor accessory factor-1 (AF-1) "mRNA", complete cds	291	950	619	710	445
U06080_at	Human N-acetylglucosaminyl 6-sulphatase (GALNS) gene	62	37	20	24	101
U06155_at	Human chromosome 1q subtelomeric sequence D15S53 "pB=U06155" (mye-DNA) (normal=CDS)	117	85	20	20	20
U06233_at	Human POU domain protein (Brl-3b) "mRNA", complete cds	20	20	20	20	20
U06452_at	Human melanoma antigen recognized by T-cells (MART-1) mRNA	20	20	7302	6354	6999
U06452_at		20	20	87	20	20

U12139..at	Human alpha1(X) collagen (COL11A1) "gene", 5' region and exon 1 (gb-U12139 mype-DNA) (endogenous)	261	243	20	169	546
U12140..at	Human tyrosine kinase receptor p145TRK-B (TRK-B) "mRNA", complete cds	275	195	64	52	106
U12141..at	Human Ig Fc receptor hFcRn "mRNA", complete cds	195	185	332	133	321
U12142..at	Human paired box homeotic protein (PAX3) gene	20	20	20	20	283
U12143..at	Human diaphanous methyltransferase (TPMT) "mRNA", complete cds	25	22	70	27	20
U12144..at	Human Cae-19 "mRNA", complete cds	2522	2665	5158	3551	551
U12145..at	Human mitochondrial glycerol-3-phosphate dehydrogenase "mRNA", complete cds	20	23	20	20	1024
U12146..at	Human ribosomal protein L35 "mRNA", complete cds	3327	4503	3986	2811	1024
U12147..at	Human thrombospondin-1 gene, partial cds	70	75	20	61	135
U12148..at	Human epidermal growth factor receptor substrate (Eps8) "mRNA", complete cds	20	50	62	65	84
U12149..at	Human tumor necrosis factor type 1 receptor associated protein (TRAF1) "mRNA", partial cds	41	20	47	23	20
U12150..at	Human banded intermediate filament protein BP115 "mRNA", partial cds (gb-U12150 mype-RNA)	71	107	117	117	242
U12151..at	Human Wata1: Atrial fibrillation protein (WASP) "mRNA", complete cds	20	20	20	20	20
U12152..at	Human myosin IIA: Atrial fibrillation protein (MINOR) "mRNA", complete cds	154	20	20	20	20
U12153..at	Human agouti gene	35	20	20	20	20
U12154..at	Human acyl-CoA dehydrogenase "mRNA", complete cds	434	367	50	345	962
U12155..at	Human MAP kinase activated protein kinase 2 "mRNA", complete cds	20	20	20	20	20
U12156..at	Human non-translated mRNA sequence	20	20	20	20	20
U12157..at	Human sperm membrane protein BS-64 (HSD-1) "mRNA", partial cds	20	127	20	20	195
U12158..at	Human positive regulator of programmed cell death ICH-1L (Ich-1) "mRNA", complete cds	20	20	20	20	89
U12159..at	Human negative regulator of programmed cell death ICH-1S (Ich-1) "mRNA", complete cds	33	26	20	20	64
U12160..at	Human nuclear respiratory factor-2 subunit alpha "mRNA", complete cds	22	84	75	112	109
U12161..at	Human nuclear respiratory factor-2 subunit beta 1 "mRNA", complete cds	161	171	109	171	161
U12162..at	Human dehydroepiandrosterone sulfotransferase (STD) gene, exon 6 and complete cds	20	87	74	20	205
U12163..at	Human forward protein FREAC-1 "mRNA", complete cds	111	160	72	20	36
U12164..at	Human forward protein FREAC-2 "mRNA", partial cds	20	20	69	20	67
U12165..at	Human ribosomal DNA complete repeating unit (gb-U12165 mype-DNA) (annot-CDS)	20	20	20	20	38
U12166..at	Human ankyrin G (ANK-3) "mRNA", complete cds	96	128	113	124	250
U12167..at	Human G protein-coupled receptor (GPR1) "gene", complete cds	20	78	91	91	163
U12168..at	Human lactate dehydrogenase-C (LDH-C) "mRNA", complete cds	85	29	125	87	168
U12169..at	Human homolog of yeast mult. (NPMS1) "gene", complete cds	95	128	156	31	147
U12170..at	Human homolog of yeast mult. (NPMS2) "gene", complete cds	20	20	20	20	20
U12171..at	Human ELAV-like neuronal protein 1 isoform Hs-N2 (Hs-N1) "mRNA", partial cds (gb-U12171 mype-RNA)	84	73	20	27	20
U12172..at	Human cyclin protease CPP32 isoform alpha "mRNA", complete cds	20	20	49	20	20
U12173..at	Human homolog of Drosophila disc large "protein", isoform 2 (Indg-2) "mRNA", complete cds	20	20	20	20	20
U12174..at	Human large-conductance calcium-activated potassium channel (NSIO) "mRNA", complete cds	37	37	35	20	20
U12175..at	Human TATA-binding protein associated factor 30 kDa subunit (tbf30) "mRNA", complete cds	67	22	76	32	70
U12176..at	Human TFIIA gamma subunit "mRNA", complete cds	71	113	127	106	396
U12177..at	Human myosin (MUCB) "mRNA", partial cds	109	170	150	128	162
U12178..at	Human myosin-IC "mRNA", complete cds	129	116	180	24	161
U12179..at	Human tissue inhibitor of metalloproteinases-3 "mRNA", complete cds	456	273	527	116	666
U12180..at	Human Interleukin 15 (IL15) "mRNA", complete cds	20	20	20	20	20
U12181..at	Human Ral guanine nucleotide dissociation stimulator "mRNA", partial cds	108	80	62	90	62
U12182..at	Human centromere protein-A (CENP-A) "mRNA", complete cds	20	98	47	68	20
U12183..at	Human sulfate transporter (STD) "mRNA", complete cds	20	20	38	20	20
U12184..at	Human sulfate transporter (STD) "mRNA", complete cds	31	95	126	30	106
U12185..at	Human (act-1) "mRNA", complete cds	20	20	20	22	99
U12186..at	Human microtubule-associated protein 1A (MAP1A) "mRNA", complete cds	20	20	20	20	20
U12187..at	Human protein tyrosine phosphatase (LUPP-1) "mRNA", partial sequence	111	104	227	90	23
U12188..at	Human EPE-related G protein-coupled receptor (gp) "mRNA", complete cds	76	337	250	111	75
U12189..at	Human ribosomal protein L37a "mRNA", complete cds	3885	4706	5688	43	20
U12190..at	Human ribosomal protein L38 "mRNA", complete cds	4538	5358	8309	20	162
U12191..at	Human ribosomal protein S5 "mRNA", complete cds	1923	7223	7035	3843	1967
U12192..at	Human ribosomal protein S9 "mRNA", complete cds	2645	5247	4112	5283	5283
U12193..at	Human ribosomal protein S10 "mRNA", complete cds	2645	5247	4112	2841	2841
U12194..at	Human ribosomal protein S29 "mRNA", complete cds	4281	1556	8336	4046	594
U12195..at	Human SRNP core protein Sm D3 "mRNA", complete cds	113	91	1853	3884	2327
U12196..at	Human SRNP core protein Sm D3 "mRNA", complete cds	113	91	1853	1076	1233
U12197..at	Human HLA-DMB "mRNA", complete cds	308	275	155	92	175
U12198..at	Human beta-1,2-N-acetylglucosaminyltransferase II (MGAT2) "gene", complete cds	20	20	60	20	55
U12199..at	Human Nip1 (NIP1) "mRNA", complete cds	138	203	220	20	57
U12200..at	Human Nip1 (NIP1) "mRNA", complete cds	138	203	220	20	205

Gene	Accession	Expression	Protein	Size (aa)	Weight (kDa)	PI	Ref
Human NIP2 (NIP2)	U15173	complete cds		22	55	30	41
Human NIP2 (NIP2)	U15174	complete cds		102	85	113	189
Human NIP2 (NIP2)	U15175	complete cds		205	201	285	570
Human NIP2 (NIP2)	U15176	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15177	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15178	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15179	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15180	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15181	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15182	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15183	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15184	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15185	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15186	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15187	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15188	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15189	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15190	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15191	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15192	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15193	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15194	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15195	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15196	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15197	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15198	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15199	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15200	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15201	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15202	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15203	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15204	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15205	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15206	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15207	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15208	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15209	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15210	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15211	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15212	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15213	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15214	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15215	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15216	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15217	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15218	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15219	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15220	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15221	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15222	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15223	complete cds		20	20	20	20
Human NIP2 (NIP2)	U15224						

	Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542
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Accession	Gene	Chromosome	Start	End	Strand	Size	GC	GC3	GC4	GC5	GC6	GC7	GC8	GC9	GC10	GC11	GC12	GC13	GC14	GC15	GC16	GC17	GC18	GC19	GC20	GC21	GC22	GC23	GC24	GC25	GC26	GC27	GC28	GC29	GC30	GC31	GC32	GC33	GC34	GC35	GC36	GC37	GC38	GC39	GC40	GC41	GC42	GC43	GC44	GC45	GC46	GC47	GC48	GC49	GC50	GC51	GC52	GC53	GC54	GC55	GC56	GC57	GC58	GC59	GC60	GC61	GC62	GC63	GC64	GC65	GC66	GC67	GC68	GC69	GC70	GC71	GC72	GC73	GC74	GC75	GC76	GC77	GC78	GC79	GC80	GC81	GC82	GC83	GC84	GC85	GC86	GC87	GC88	GC89	GC90	GC91	GC92	GC93	GC94	GC95	GC96	GC97	GC98	GC99	GC100	GC101	GC102	GC103	GC104	GC105	GC106	GC107	GC108	GC109	GC110	GC111	GC112	GC113	GC114	GC115	GC116	GC117	GC118	GC119	GC120	GC121	GC122	GC123	GC124	GC125	GC126	GC127	GC128	GC129	GC130	GC131	GC132	GC133	GC134	GC135	GC136	GC137	GC138	GC139	GC140	GC141	GC142	GC143	GC144	GC145	GC146	GC147	GC148	GC149	GC150	GC151	GC152	GC153	GC154	GC155	GC156	GC157	GC158	GC159	GC160	GC161	GC162	GC163	GC164	GC165	GC166	GC167	GC168	GC169	GC170	GC171	GC172	GC173	GC174	GC175	GC176	GC177	GC178	GC179	GC180	GC181	GC182	GC183	GC184	GC185	GC186	GC187	GC188	GC189	GC190	GC191	GC192	GC193	GC194	GC195	GC196	GC197	GC198	GC199	GC200	GC201	GC202	GC203	GC204	GC205	GC206	GC207	GC208	GC209	GC210	GC211	GC212	GC213	GC214	GC215	GC216	GC217	GC218	GC219	GC220	GC221	GC222	GC223	GC224	GC225	GC226	GC227	GC228	GC229	GC230	GC231	GC232	GC233	GC234	GC235	GC236	GC237	GC238	GC239	GC240	GC241	GC242	GC243	GC244	GC245	GC246	GC247	GC248	GC249	GC250	GC251	GC252	GC253	GC254	GC255	GC256	GC257	GC258	GC259	GC260	GC261	GC262	GC263	GC264	GC265	GC266	GC267	GC268	GC269	GC270	GC271	GC272	GC273	GC274	GC275	GC276	GC277	GC278	GC279	GC280	GC281	GC282	GC283	GC284	GC285	GC286	GC287	GC288	GC289	GC290	GC291	GC292	GC293	GC294	GC295	GC296	GC297	GC298	GC299	GC300	GC301	GC302	GC303	GC304	GC305	GC306	GC307	GC308	GC309	GC310	GC311	GC312	GC313	GC314	GC315	GC316	GC317	GC318	GC319	GC320	GC321	GC322	GC323	GC324	GC325	GC326	GC327	GC328	GC329	GC330	GC331	GC332	GC333	GC334	GC335	GC336	GC337	GC338	GC339	GC340	GC341	GC342	GC343	GC344	GC345	GC346	GC347	GC348	GC349	GC350	GC351	GC352	GC353	GC354	GC355	GC356	GC357	GC358	GC359	GC360	GC361	GC362	GC363	GC364	GC365	GC366	GC367	GC368	GC369	GC370	GC371	GC372	GC373	GC374	GC375	GC376	GC377	GC378	GC379	GC380	GC381	GC382	GC383	GC384	GC385	GC386	GC387	GC388	GC389	GC390	GC391	GC392	GC393	GC394	GC395	GC396	GC397	GC398	GC399	GC400	GC401	GC402	GC403	GC404	GC405	GC406	GC407	GC408	GC409	GC410	GC411	GC412	GC413	GC414	GC415
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Gene	Transcript	Accession	Length	Score	Rank
Human apolipoprotein apoC-IV (APOC4) gene, complete cds	...	U02376	20	20	20
Human lamin A-like protein kinase C-interacting protein "mRNA", complete cds	...	U02381	20	20	20
Human myeloid cell factor (MEF) "mRNA", complete cds	...	U02385	20	20	20
Human IL-17 "mRNA", complete cds	...	U02391	20	20	20
Human orphan receptor GPR9 (GPR9) gene, partial cds	...	U02397	20	20	20
Human CLN3 "mRNA", complete cds	...	U02400	20	20	20
Human Hnf1b "mRNA", complete cds	...	U02407	20	20	20
Human p37N "mRNA", complete cds	...	U02414	20	20	20
Human cytoplasmic dynein light chain 1 (hdc1) "mRNA", complete cds	...	U02424	20	20	20
Human xenoderm pigmentum group E UV-damaged DNA binding factor "mRNA", complete cds	...	U02486	20	20	20
Human tyrosine phosphatase (TDO) "mRNA", complete cds	...	U02489	20	20	20
Human signaling lymphocytic activation molecule (SLAM) "mRNA", complete cds	...	U03017	20	20	20
Human "lipo-activated", protein kinase PRK2 "mRNA", complete cds	...	U03052	20	20	20
Human lipid-activated protein kinase PRK1 "mRNA", complete cds	...	U03053	20	20	20
Human G protein-coupled receptor kinase GRK4 "mRNA", alpha splice variant, complete cds	...	U03054	20	20	20
Human neurexophilin "mRNA", complete cds	...	U03147	20	20	20
Human mdm2 (mdm2) "mRNA", complete cds	...	U03202	20	20	20
Human mdm2E (mdm2) "mRNA", complete cds	...	U03203	20	20	20
Human p37N "mRNA", complete cds	...	U03267	20	20	20
Human p37N "mRNA", complete cds	...	U03268	20	20	20
Human p37N "mRNA", complete cds	...	U03317	20	20	20
Human p37N "mRNA", complete cds	...	U03479	20	20	20
Human p37N "mRNA", complete cds	...	U03481	20	20	20
Human p37N "mRNA", complete cds	...	U03482	20	20	20
Human p37N "mRNA", complete cds	...	U03483	20	20	20
Human p37N "mRNA", complete cds	...	U03484	20	20	20
Human p37N "mRNA", complete cds	...	U03485	20	20	20
Human p37N "mRNA", complete cds	...	U03486	20	20	20
Human p37N "mRNA", complete cds	...	U03487	20	20	20
Human p37N "mRNA", complete cds	...	U03488	20	20	20
Human p37N "mRNA", complete cds	...	U03489	20	20	20
Human p37N "mRNA", complete cds	...	U03490	20	20	20
Human p37N "mRNA", complete cds	...	U03491	20	20	20
Human p37N "mRNA", complete cds	...	U03492	20	20	20
Human p37N "mRNA", complete cds	...	U03493	20	20	20
Human p37N "mRNA", complete cds	...	U03494	20	20	20
Human p37N "mRNA", complete cds	...	U03495	20	20	20
Human p37N "mRNA", complete cds	...	U03496	20	20	20
Human p37N "mRNA", complete cds	...	U03497	20	20	20
Human p37N "mRNA", complete cds	...	U03498	20	20	20
Human p37N "mRNA", complete cds	...	U03499	20	20	20
Human p37N "mRNA", complete cds	...	U03500	20	20	20
Human p37N "mRNA", complete cds	...	U03501	20	20	20
Human p37N "mRNA", complete cds	...	U03502	20	20	20
Human p37N "mRNA", complete cds	...	U03503	20	20	20
Human p37N "mRNA", complete cds	...	U03504	20	20	20
Human p37N "mRNA", complete cds	...	U03505	20	20	20
Human p37N "mRNA", complete cds	...	U03506	20	20	20
Human p37N "mRNA", complete cds	...	U03507	20	20	20
Human p37N "mRNA", complete cds	...	U03508	20	20	20
Human p37N "mRNA", complete cds	...	U03509	20	20	20
Human p37N "mRNA", complete cds	...	U03510	20	20	20
Human p37N "mRNA", complete cds	...	U03511	20	20	20
Human p37N "mRNA", complete cds	...	U03512	20	20	20
Human p37N "mRNA", complete cds	...	U03513	20	20	20
Human p37N "mRNA", complete cds	...	U03514	20	20	20
Human p37N "mRNA", complete cds	...	U03515	20	20	20
Human p37N "mRNA", complete cds	...	U03516	20	20	20
Human p37N "mRNA", complete cds	...	U03517	20	20	20
Human p37N "mRNA", complete cds	...	U03518	20	20</	

Accession	Gene	Protein	Length	Start	End	Score	Expect	Ident	Align	Gap	Mismatch	Indel	Conserved	Conserved2	Conserved3	Conserved4	Conserved5	Conserved6	Conserved7	Conserved8	Conserved9	Conserved10	Conserved11	Conserved12	Conserved13	Conserved14	Conserved15	Conserved16	Conserved17	Conserved18	Conserved19	Conserved20	Conserved21	Conserved22	Conserved23	Conserved24	Conserved25	Conserved26	Conserved27	Conserved28	Conserved29	Conserved30	Conserved31	Conserved32	Conserved33	Conserved34	Conserved35	Conserved36	Conserved37	Conserved38	Conserved39	Conserved40	Conserved41	Conserved42	Conserved43	Conserved44	Conserved45	Conserved46	Conserved47	Conserved48	Conserved49	Conserved50	Conserved51	Conserved52	Conserved53	Conserved54	Conserved55	Conserved56	Conserved57	Conserved58	Conserved59	Conserved60	Conserved61	Conserved62	Conserved63	Conserved64	Conserved65	Conserved66	Conserved67	Conserved68	Conserved69	Conserved70	Conserved71	Conserved72	Conserved73	Conserved74	Conserved75	Conserved76	Conserved77	Conserved78	Conserved79	Conserved80	Conserved81	Conserved82	Conserved83	Conserved84	Conserved85	Conserved86	Conserved87	Conserved88	Conserved89	Conserved90	Conserved91	Conserved92	Conserved93	Conserved94	Conserved95	Conserved96	Conserved97	Conserved98	Conserved99	Conserved100	Conserved101	Conserved102	Conserved103	Conserved104	Conserved105	Conserved106	Conserved107	Conserved108	Conserved109	Conserved110	Conserved111	Conserved112	Conserved113	Conserved114	Conserved115	Conserved116	Conserved117	Conserved118	Conserved119	Conserved120	Conserved121	Conserved122	Conserved123	Conserved124	Conserved125	Conserved126	Conserved127	Conserved128	Conserved129	Conserved130	Conserved131	Conserved132	Conserved133	Conserved134	Conserved135	Conserved136	Conserved137	Conserved138	Conserved139	Conserved140	Conserved141	Conserved142	Conserved143	Conserved144	Conserved145	Conserved146	Conserved147	Conserved148	Conserved149	Conserved150	Conserved151	Conserved152	Conserved153	Conserved154	Conserved155	Conserved156	Conserved157	Conserved158	Conserved159	Conserved160	Conserved161	Conserved162	Conserved163	Conserved164	Conserved165	Conserved166	Conserved167	Conserved168	Conserved169	Conserved170	Conserved171	Conserved172	Conserved173	Conserved174	Conserved175	Conserved176	Conserved177	Conserved178	Conserved179	Conserved180	Conserved181	Conserved182	Conserved183	Conserved184	Conserved185	Conserved186	Conserved187	Conserved188	Conserved189	Conserved190	Conserved191	Conserved192	Conserved193	Conserved194	Conserved195	Conserved196	Conserved197	Conserved198	Conserved199	Conserved200	Conserved201	Conserved202	Conserved203	Conserved204	Conserved205	Conserved206	Conserved207	Conserved208	Conserved209	Conserved210	Conserved211	Conserved212	Conserved213	Conserved214	Conserved215	Conserved216	Conserved217	Conserved218	Conserved219	Conserved220	Conserved221	Conserved222	Conserved223	Conserved224	Conserved225	Conserved226	Conserved227	Conserved228	Conserved229	Conserved230	Conserved231	Conserved232	Conserved233	Conserved234	Conserved235	Conserved236	Conserved237	Conserved238	Conserved239	Conserved240	Conserved241	Conserved242	Conserved243	Conserved244	Conserved245	Conserved246	Conserved247	Conserved248	Conserved249	Conserved250	Conserved251	Conserved252	Conserved253	Conserved254	Conserved255	Conserved256	Conserved257	Conserved258	Conserved259	Conserved260	Conserved261	Conserved262	Conserved263	Conserved264	Conserved265	Conserved266	Conserved267	Conserved268	Conserved269	Conserved270	Conserved271	Conserved272	Conserved273	Conserved274	Conserved275	Conserved276	Conserved277	Conserved278	Conserved279	Conserved280	Conserved281	Conserved282	Conserved283	Conserved284	Conserved285	Conserved286	Conserved287	Conserved288	Conserved289	Conserved290	Conserved291	Conserved292	Conserved293	Conserved294	Conserved295	Conserved296	Conserved297	Conserved298	Conserved299	Conserved300	Conserved301	Conserved302	Conserved303	Conserved304	Conserved305	Conserved306	Conserved307	Conserved308	Conserved309	Conserved310	Conserved311	Conserved312	Conserved313	Conserved314	Conserved315	Conserved316	Conserved317	Conserved318	Conserved319	Conserved320	Conserved321	Conserved322	Conserved323	Conserved324	Conserved325	Conserved326	Conserved327	Conserved328	Conserved329	Conserved330	Conserved331	Conserved332	Conserved333	Conserved334	Conserved335	Conserved336	Conserved337	Conserved338	Conserved339	Conserved340	Conserved341	Conserved342	Conserved343	Conserved344	Conserved345	Conserved346	Conserved347	Conserved348	Conserved349	Conserved350	Conserved351	Conserved352	Conserved353	Conserved354	Conserved355	Conserved356	Conserved357	Conserved358	Conserved359	Conserved360	Conserved361	Conserved362	Conserved363	Conserved364	Conserved365	Conserved366	Conserved367	Conserved368	Conserved369	Conserved370	Conserved371	Conserved372	Conserved373
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[illegible]

Expressed RNA in Subcutaneous connective tissue, Normal urothelium and Transitional cell carcinomas									
U43077.at	Human COG37 homolog "mRNA", complete cds	76	216	283	87	241	265		
U43083.at	Human G alpha-q (Gaq) "mRNA", complete cds	48	34	20	83	211	142		
U43142.at	Human vascular endothelial growth factor related protein VRP "mRNA", complete cds	96	20	20	20	20	20		
U43148.at	Human patched homolog (PTC) "mRNA", complete cds	96	191	27	112	413	204		
U43177.at	Human urocanin "gene", complete cds	20	20	20	54	153	218		
U43185.at	Human signal transducer and activator of transcription Sui5A "mRNA", complete cds	72	162	156	101	30	36		
U43189.at	Human Ets transcription factors NERF-1a and NERF-1b "mRNA", complete cds	20	46	20	78	233	30		
U43200.at	Human thyroid transcription factor 1 (TTF-1) "mRNA", complete cds	20	45	20	26	187	67		
U43203.at	Human nucleoporin nup 38 "mRNA", complete cds	32	23	20	33	20	87		
U43276.at	Human nucleoside diphosphate synthetase 2 (SPS2) "mRNA", complete cds	143	246	118	102	196	172		
U43286.at	Human MDS1B (MDS1) "mRNA", complete cds	76	107	20	48	129	189		
U43292.at	Human putative transmembrane receptor (fuzzled 5) "mRNA", complete cds	20	20	20	20	246	202		
U43318.at	Human link protein "mRNA", complete cds	20	29	20	20	159	202		
U43328.at	Human normal keratinocyte "mRNA", complete cds	20	20	20	92	20	20		
U43374.at	Human lysine kinase (LysK) "mRNA", complete cds	77	91	20	32	20	79		
U43400.at	Human DNA topoisomerase III "mRNA", complete cds	20	20	41	20	273	83		
U43431.at	Human dyshomeo-related protein 2 (DRP2) "mRNA", complete cds	20	20	20	61	98	186		
U43519.at	Human cell adhesion kinase beta (CAKbeta) "mRNA", complete cds	97	64	41	124	101	63		
U43522.at	Human malignant melanoma metastasis suppressor (MSS-1) "gene", "mRNA", complete cds	71	197	78	55	172	277		
U43527.at	Human kinase suppressor of ras-1 (KSR1) "mRNA", partial cds	97	157	78	101	260	181		
U43566.at	Human kinase suppressor of ras-1 (KSR1) "mRNA", partial cds	20	45	20	20	72	20		
U43653.at	Human putative transmembrane receptor L-110p "mRNA", complete cds	20	20	20	20	113	20		
U43672.at	Human retarain (PRDA) "mRNA", complete cds	20	20	20	20	44	20		
U43747.at	Human retarain (PRDA) gene, exon 3b and complete cds	23	43	91	27	71	87		
U43751.at	Human neuro-d4 protein "mRNA", complete cds	58	20	20	20	132	20		
U43843.at	Human G12-associated binder-1 "mRNA", complete cds	35	87	20	53	89	44		
U43865.at	Human signal transducing adaptor molecule STAM "mRNA", complete cds	2812	409	6079	6070	963	2772		
U43869.at	Human 37 kD laminin receptor precursor/p40 ribosome associated protein "gene", complete cds	20	20	20	20	219	191		
U43901.at	Human tumor-associated membrane protein homolog (TMP) "mRNA", complete cds	127	147	219	106	337	191		
U43923.at	Human transcription factor SUPT4H "mRNA", complete cds	84	20	20	20	20	20		
U43944.at	Human breast cancer cytosolic NAOP1-dependent malic enzyme "mRNA", partial cds	121	94	20	77	20	20		
U43959.at	Human beta 4 adducin "mRNA", alternatively spliced partial cds	24	20	94	56	22	71		
U43985.at	Human ankyrin G118 (ANKG) "mRNA", complete cds	145	175	93	122	401	364		
U44039.at	Human myotroph embryonic factor (TEF) "mRNA", complete cds	20	20	20	20	20	20		
U44060.at	Human homeodomain protein (Pox 1) "mRNA", complete cds	59	20	20	41	20	37		
U44103.at	Human small GTP binding protein Rab9 "mRNA", complete cds	20	20	20	20	20	20		
U44105.at	Human Ras expressed pseudogene "mRNA", complete cds	24	22	80	52	55	98		
U44175.at	Human histamine N-methyltransferase (HNMT) gene	20	41	68	105	287	20		
U44376.at	Human homotyros deletion target in pancreatic carcinoma (OPCA) "mRNA", complete cds	20	20	20	20	20	20		
U44429.at	Human D53 (ND53) "mRNA", partial cds	20	60	68	20	207	39		
U44754.at	Human PSE-binding factor PTF gamma subunit "mRNA", complete cds	250	242	112	193	578	481		
U44755.at	Human PSE-binding factor PTF delta subunit "mRNA", complete cds	98	78	119	88	20	97		
U44772.at	Human palmitoyl protein thioesterase "mRNA", complete cds	29	92	107	41	104	20		
U44789.at	Human U1 snRNP binding protein homolog "mRNA", complete cds	968	805	795	545	946	930		
U44839.at	Human positive regulatory factor 1 (NRF1) "mRNA", complete cds	153	20	115	20	20	20		

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Accession	Gene	Chromosome	Start	End	Strand	Size (bp)	Size (kb)	Size (Mb)
U63289	Human RNA-binding protein CUG-BP1/NR50	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63295	Human seven in absentia homolog	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63312	Human cosmid "L121NC01:242E1": ETV6	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63336	Human myc homolog (HMYH)	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63337	Human super cysteine rich protein	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63338	Human MHC Class I region profile rich protein	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63345	Human autophagy receptor (SUR1)	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63346	Human mRNA expressed in HCHCC livers and Molt-4 proliferating cells	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63347	Human putative FAP protein	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63348	Human osteocalcin stimulating factor	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63349	Human transcription factor RTEF-1	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63350	Human hepatitis delta antigen interacting protein A	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63351	Human neurogenic basic-helix-loop-helix protein	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63352	Human guanine nucleotide exchange factor	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63353	Human chondrocyte-specific gene	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63354	Human IL-17 receptor beta2	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63355	Human DNA repair endonuclease subunit	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63356	Human ubiquitin fusion-degradation protein	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63357	Human synaptobrevin-3	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63358	Human connexin43 gap junction protein	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63359	Human sperm membrane protein	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63360	Human Bcr1-delta115 (Bcr1)	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63361	Human HPC-1 (HPC-1)	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63362	Human putative G protein-coupled receptor	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63363	Human ribonuclease K6 precursor	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63364	Human zinc finger protein	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63365	Human preferentially expressed antigen of melanoma	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63366	Human melanocyte-specific gene	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63367	Human msp1-related gene	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63368	Human seven transmembrane G-coupled receptor	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63369	Human erythrocyte-specific insulin-like growth factor	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63370	Human erythrocyte-specific insulin-like growth factor	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63371	Human MHC class I molecule	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63372	Human homeodomain-containing protein	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63373	Human regulator of nonsense transcript stability	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63374	Human mitochondrial NADH dehydrogenase subunit	1	111,111,111	111,111,111	+	1,111	1.1	1.1
U63375	Human ribosomal protein L3-like	1	111,111,111	111,1				

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Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas		Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas	
Human TNF receptor associated factor 6 (TRAF6) "mRNA", complete cds.	148	96	52
Human MEK kinase 3 "mRNA", complete cds	20	20	20
Human death adaptor molecule RAIDO (RAIDO) "mRNA", complete cds	20	20	20
Human clone 23759 "mRNA", partial cds.	20	97	20
Human clone 23560 "mRNA" sequence	20	20	20
Human clone 23568 "mRNA" sequence	25	20	20
Human clone 23799 "mRNA" sequence	20	20	20
Human clone 23569 "mRNA" sequence	20	20	20
Human clone 23826 "mRNA" sequence	20	20	20
Human clone 23838 "mRNA" sequence	20	20	20
Human clone 23878 "mRNA" sequence	20	20	20
Human clone 23879 "mRNA", complete cds.	20	20	20
Human clone 23883 "mRNA", complete cds.	20	20	20
Human clone 23893 "mRNA" sequence	20	20	20
Human X11 protein "mRNA", partial cds.	20	20	20
Human clone 23719 "mRNA" sequence	20	20	20
Human clone 23932 "mRNA" sequence	20	20	20
Human clone 23732 "mRNA", partial cds.	20	20	20
Human clone 23945 "mRNA", complete cds.	20	20	20
Human clone 23745 "mRNA", complete cds.	20	20	20
Human clone 23959 "mRNA", partial cds.	20	20	20
Human deoxythymine synthase "mRNA", complete cds.	20	20	20
Human clone 23760 "mRNA", partial cds.	20	20	20
Human clone 23614 "mRNA" sequence	20	20	20
Human clone 23627 "mRNA", complete cds.	20	20	20
Human clone 23640 "mRNA", partial cds.	20	20	20
Human clone 23707 "mRNA", partial cds.	20	20	20
Human clones 23920 and 23921 "mRNA" sequence	20	20	20
Human clone 23720 "mRNA" sequence	20	20	20
Human clone 23933 "mRNA" sequence	20	20	20
Human clone 23733 "mRNA", complete cds.	20	20	20
Human clone 23947 "mRNA", partial cds.	20	20	20
Human clone 23548 "mRNA" sequence	20	20	20
Human clone 23575 "mRNA", partial cds.	20	20	20
Human clone 23801 "mRNA" sequence	20	20	20
Human clone 23828 "mRNA" sequence	20	20	20
Human arginine methyltransferase "mRNA", complete cds.	20	20	20
Human clone 23867 "mRNA" sequence	20	20	20
Human clone 23682 "mRNA" sequence	20	20	20
Human clone 23695 "mRNA" sequence	20	20	20
Human clone 23721 "mRNA" sequence	20	20	20
Human clone 23731 "mRNA" sequence	20	20	20
Human clone 23948 "mRNA" sequence	20	20	20
Human clone 23748 "mRNA", complete cds.	20	20	20
Human clone 23951 "mRNA" sequence	20	20	20
Human clone 23952 "mRNA" sequence	20	20	20
Human clone 23953 "mRNA" sequence	20	20	20
Human clone 23954 "mRNA" sequence	20	20	20
Human clone 23955 "mRNA" sequence	20	20	20
Human clone 23956 "mRNA" sequence	20	20	20
Human clone 23957 "mRNA" sequence	20	20	20
Human clone 23958 "mRNA" sequence	20	20	20
Human clone 23959 "mRNA" sequence	20	20	20
Human clone 23960 "mRNA" sequence	20	20	20
Human clone 23961 "mRNA" sequence	20	20	20
Human clone 23962 "mRNA" sequence	20	20	20
Human clone 23963 "mRNA" sequence	20	20	20
Human clone 23964 "mRNA" sequence	20	20	20
Human clone 23965 "mRNA" sequence	20	20	20
Human clone 23966 "mRNA" sequence	20	20	20
Human clone 23967 "mRNA" sequence	20	20	20
Human clone 23968 "mRNA" sequence	20	20	20
Human clone 23969 "mRNA" sequence	20	20	20
Human clone 23970 "mRNA" sequence	20	20	20
Human clone 23971 "mRNA" sequence	20	20	20
Human clone 23972 "mRNA" sequence	20	20	20
Human clone 23973 "mRNA" sequence	20	20	20
Human clone 23974 "mRNA" sequence	20	20	20
Human clone 23975 "mRNA" sequence	20	20	20
Human clone 23976 "mRNA" sequence	20	20	20
Human clone 23977 "mRNA" sequence	20	20	20
Human clone 23978 "mRNA" sequence	20	20	20
Human clone 23979 "mRNA" sequence	20	20	20
Human clone 23980 "mRNA" sequence	20	20	20
Human clone 23981 "mRNA" sequence	20	20	20
Human clone 23982 "mRNA" sequence	20	20	20
Human clone 23983 "mRNA" sequence	20	20	20
Human clone 23984 "mRNA" sequence	20	20	20
Human clone 23985 "mRNA" sequence	20	20	20
Human clone 23986 "mRNA" sequence	20	20	20
Human clone 23987 "mRNA" sequence	20	20	20
Human clone 23988 "mRNA" sequence	20	20	20
Human clone 23989 "mRNA" sequence	20	20	20
Human clone 23990 "mRNA" sequence	20	20	20
Human clone 23991 "mRNA" sequence	20	20	20
Human clone 23992 "mRNA" sequence	20	20	20
Human clone 23993 "mRNA" sequence	20	20	20
Human clone 23994 "mRNA" sequence	20	20	20
Human clone 23995 "mRNA" sequence	20	20	20
Human clone 23996 "mRNA" sequence	20	20	20
Human clone 23997 "mRNA" sequence	20	20	20
Human clone 23998 "mRNA" sequence	20	20	20
Human clone 23999 "mRNA" sequence	20	20	20
Human clone 24000 "mRNA" sequence	20	20	20
Human clone 24001 "mRNA" sequence	20	20	20
Human clone 24002 "mRNA" sequence	20	20	20
Human clone 24003 "mRNA" sequence	20	20	20
Human clone 24004 "mRNA" sequence	20	20	20
Human clone 24005 "mRNA" sequence	20	20	20
Human clone 24006 "mRNA" sequence	20	20	20
Human clone 24007 "mRNA" sequence	20	20	20
Human clone 24008 "mRNA" sequence	20	20	20
Human clone 24009 "mRNA" sequence	20	20	20
Human clone 24010 "mRNA" sequence	20	20	20
Human clone 24011 "mRNA" sequence	20	20	20
Human clone 24012 "mRNA" sequence	20	20	20
Human clone 24013 "mRNA" sequence	20	20	20
Human clone 24014 "mRNA" sequence	20	20	20
Human clone 24015 "mRNA" sequence	20	20	20
Human clone 24016 "mRNA" sequence	20	20	20
Human clone 24017 "mRNA" sequence	20	20	20
Human clone 24018 "mRNA" sequence	20	20	20
Human clone 24019 "mRNA" sequence	20	20	20
Human clone 24020 "mRNA" sequence	20	20	20
Human clone 24021 "mRNA" sequence	20	20	20
Human clone 24022 "mRNA" sequence	20	20	20
Human clone 24023 "mRNA" sequence	20	20	20
Human clone 24024 "mRNA" sequence	20	20	20
Human clone 24025 "mRNA" sequence	20	20	20
Human clone 24026 "mRNA" sequence	20	20	20
Human clone 24027 "mRNA" sequence	20	20	20
Human clone 24028 "mRNA" sequence	20	20	20
Human clone 24029 "mRNA" sequence	20	20	20
Human clone 24030 "mRNA" sequence	20	20	20
Human clone 24031 "mRNA" sequence	20	20	20
Human clone 24032 "mRNA" sequence	20	20	20
Human clone 24033 "mRNA" sequence	20	20	20
Human clone 24034 "mRNA" sequence	20	20	20
Human clone 24035 "mRNA" sequence	20	20	20
Human clone 24036 "mRNA" sequence	20	20	20
Human clone 24037 "mRNA" sequence	20	20	20
Human clone 24038 "mRNA" sequence	20	20	20
Human clone 24039 "mRNA" sequence	20	20	20
Human clone 24040 "mRNA" sequence	20	20	20

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U08942_c1	Human lysyl oxidase-related protein (W59-14) "mRNA", complete cds	281	29	20	49
U08965_c1	Human DNA binding protein FKHL15 (FKHL15) "mRNA", complete cds	20	20	20	38
U08063_c1	Human potassium channel KCNO1 "mRNA", complete cds	20	20	20	20
U08076_c1	Human Ktn1 "mRNA", complete cds	20	20	20	20
U08004_c1	Human reiquin-class homeodomain protein IRX-2a "mRNA", complete cds	20	20	20	20
U08006_c1	Human reiquin-class homeodomain protein IRX-4 "mRNA", partial cds, gb=U08006 mypse+RNA	53	56	36	80
U08011_c1	Human glutathione-S-transferase homolog "mRNA", complete cds	270	396	334	412
U08036_c1	Human PEG3 "mRNA", partial cds	113	63	20	383
U08076_c1	Human nuclear RNA helicase, complete cds	113	127	169	383
U08037_c1	Human RPL1 homolog "mRNA", 3'UTR region, gb=U08037 mypse+RNA	20	47	20	20
U08043_c1	Human butyrophilin (BT51) "mRNA", complete cds	20	20	20	51
U08043_c1	Human sodium phosphate transporter (NPT3) "mRNA", complete cds	20	120	20	20
U08044_c1	Human butyrophilin (BT54) "mRNA", complete cds	20	20	20	45
U08046_c1	Human butyrophilin (BT54) "mRNA", complete cds	20	20	20	20
U08046_c1	Human butyrophilin (BT54) "mRNA", complete cds	20	20	20	20
U08047_c1	Human RGS5A rhodanin-like protein (RGS5A) "mRNA", complete cds	80	148	88	233
U08049_c1	Human histone H2A-like protein (H2A) "mRNA", complete cds	20	93	82	69
U08011_c1	Human butyrophilin (BT52) "mRNA", complete cds	58	107	83	134
U08050_c1	Human histone H2A-like protein (H2A) "mRNA", complete cds	22	30	26	65
U08051_c1	Human butyrophilin (BT55) "mRNA", complete cds	20	20	20	123
U08052_c1	Human embryonic ectoderm development protein homolog (eef) "mRNA", partial cds	54	225	141	20
U08053_c1	Human cell surface protein HCAR "mRNA", complete cds	25	54	56	64
U08071_c1	Human LIM domain protein CLP-36 "mRNA", complete cds	81	386	161	266
U08078_c1	Human LIM domain protein CLP-36 "mRNA", complete cds	335	220	414	320
U08082_c1	Human clone 23612 mRNA sequence	63	32	87	176
U08090_c1	Human clone 23773 mRNA sequence	30	41	64	34
U08090_c1	Human clone 23774 mRNA sequence	20	20	20	25
U08090_c1	Human clone 23807 mRNA sequence	66	130	56	149
U08090_c1	Human clone 23548 and 23762 "mRNA", complete cds	82	20	20	73
U08090_c1	Human clone 23722 mRNA sequence	20	57	60	20
U08090_c1	Human clone 23564 mRNA sequence	20	20	20	48
U08091_c1	Human clone 23652 mRNA sequence	76	45	142	134
U08091_c1	Human clone 23654 mRNA sequence	40	25	26	48
U08091_c1	Human clone 23665 mRNA sequence	58	44	167	20
U08091_c1	Human clone 23887 mRNA sequence	20	24	25	20
U08091_c1	Human clone 23800 cytochrome c oxidase subunit IV "mRNA", complete cds	684	988	952	513
U08091_c1	Human clone 23815 mRNA sequence	31	79	496	48
U08091_c1	Human clone 23654 mRNA sequence	20	31	22	74
U08091_c1	Human acyl-CoA thioester hydrolase "mRNA", complete cds	86	71	54	72
U08091_c1	Human chromosome 12p15 BAC clone C1987SK-9908 complete sequence, gb=U91327 mypse+DNA (ampl-mRNA)	23	20	20	20
U08091_c1	Human peroxin 12 (H1PEX12) "mRNA", complete cds	64	34	100	41
U08091_c1	Human kappa B epsilon (IkB) "mRNA", complete cds	20	20	20	20
U08091_c1	Human proteinase-3/neuroserpin N "mRNA", complete cds	20	20	20	20
U08091_c1	Human Friz "mRNA", complete cds	20	20	20	20
U08091_c1	Human AP-3 complex delta subunit "mRNA", complete cds	62	100	188	80
U08091_c1	Human AP-3 complex delta subunit "mRNA", complete cds	27	39	39	20
U08091_c1	Human AP-3 complex sigma3A subunit "mRNA", complete cds	113	103	142	218
U08091_c1	Human DNA fragmentation factor-45 "mRNA", complete cds	20	20	20	335
U08091_c1	Human clone 121711 defective nuclear transposon Hmar2 mRNA sequence	20	20	20	45
U08091_c1	Human clone 143789 defective nuclear transposon Hmar2 mRNA sequence	26	26	26	82
U08091_c1	Human clone 61501 defective nuclear transposon Hmar2 mRNA sequence	311	26	26	33
U08091_c1	Human alpha hydroxyacid oxidoreductase SUL12816 (HSST7) "mRNA", complete cds	30	20	20	20
U08091_c1	Human mutated in multiple inherited cancer protein (MIMAC1) "mRNA", complete cds	30	39	39	87
U08091_c1	Human metabotropic glutamate receptor 4 "mRNA", complete cds	20	20	20	20
U08091_c1	Human metabotropic glutamate receptor 7 "mRNA", complete cds	20	20	20	20
U08091_c1	Human metabotropic glutamate receptor 8 "mRNA", complete cds	20	20	20	20
U08091_c1	Human protease-activated receptor 3 (PAR3) "mRNA", complete cds	107	105	120	345
U08091_c1	Human SLP-18 associated protein "mRNA", complete cds	20	20	20	20
U08091_c1	Human Tol protein homolog "mRNA", complete cds and LINE-1 reverse transcriptase homolog, pseudogene	20	24	20	45
U08091_c1	Human nuclear chloride ion channel protein (NCC27) "mRNA", complete cds	570	818	754	1262
U08091_c1	Human merlin (NF1) gene, complete cds	132	146	145	289
U08091_c1	Human alpha 1-microglobulin transcription factor (MTF) "mRNA", complete cds	20	23	20	95
U08091_c1	Human RNA polymerase III subunit (RPOC2) "mRNA", complete cds, gb=U93867 mypse+RNA	48	48	48	30
U08091_c1	Human autoantigen DFS70 "mRNA", partial cds	39	20	41	20
U08091_c1	Human neuropilin-5 receptor (NPY5) "mRNA", complete cds	20	20	20	20
U08091_c1	Human osteopontin (OPG) "mRNA", complete cds	45	20	28	57

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Expressed RNA in Subcutaneous connective tissue, Normal urothelium and Transitional cell carcinomas									
X04571 at	Human mRNA for kidney epidermal growth factor (EGF) precursor	23	20	20	20	20	20	20	41
X04602 s at	Human mRNA for interleukin BSF-2 (B-cell differentiation factor)	141	488	523	471	393	20	20	551
X04684 s at	Human mRNA for U1 RNA-associated 70K protein	20	20	20	20	20	20	20	40
X04688 at	Human mRNA for T-cell receptor (interleukin-5)	20	20	20	20	20	20	20	20
X04708 s at	Human homeobox gene (clone HHO c13)	20	48	37	21	278	20	20	42
X04729 s at	Human c-erb-A mRNA for thyroid hormone receptor	20	20	20	20	20	20	20	35
X04741 at	Human mRNA for plasminogen activator inhibitor type 1 N-terminus (gp-X04729 in type-RNA)	23	20	20	20	20	20	20	20
X04878 at	Human mRNA for protein gene product (GPG) 9.5	20	20	20	20	20	20	20	20
X04888 at	Human mRNA for G(i) protein alpha-subunit (adenylylase cyclase inhibiting GTP-binding protein)	57	84	184	130	265	20	20	265
X0510 s at	Human gene for prolactinogen ALI	484	247	802	1147	20	20	20	20
X0510 s at	Human mRNA for poly(4-hydroxy) beta subunit (EC 1.14.11.2) (procollagen-L-proline, 2-oxoglutarate oxygen oxidoreductase, 4-hy	20	45	20	20	20	20	20	20
X0513 s at	Human alpha-lactalbumin gene	107	100	157	210	148	20	20	157
X052 s at	Human esterase C gene	20	20	20	20	20	20	20	20
X052 s at	Human mRNA for stromelysin	20	20	20	20	20	20	20	20
X052 s at	Human testis-specific PGK-2 gene for phosphoglycerate kinase (ATP 3-phospho-D-glycerate 1-phosphotransferase, EC 2.7.2.3)	20	20	20	20	20	20	20	20
X052 s at	Human mRNA for fibroblast topoisomerase II alpha (f)	642	71	200	265	351	20	20	351
X05298 at	Human mRNA (-95%) for major osteonema autoantigen CENP-B	20	20	20	20	20	20	20	20
X05309 at	Human MARC OX-2 gene signal sequence	20	20	20	20	20	20	20	20
X05323 at	Human mRNA for thymidylate synthetase (HdS)	20	20	20	20	20	20	20	20
X05345 at	Human CD42 gene involved in cell cycle control	20	20	20	20	20	20	20	20
X05360 at	Human RNA for mitochondrial adenylylase (ALDH) (EC 2.1.3)	112	133	27	37	102	20	20	91
X05409 at	Human gene for neurofilament subunit NF-L	20	20	20	20	20	20	20	20
X05605 at	Human mRNA for type IV collagen alpha 2 chain	104	126	60	21	61	20	20	63
X05615 at	Human mRNA for thyroglobulin	20	20	20	20	20	20	20	20
X05839 ma s at	Transforming growth factor beta 1 precursor gene extracted from Human transforming growth factor-beta precursor gene exon 1 and 5' start	20	20	20	20	20	20	20	20
X05855 at	Human histone H3.3 gene exon 2	148	143	352	437	465	20	20	184
X05908 at	Human mRNA for lipocortin	3217	44	34	36	20	20	20	60
X05997 at	Human mRNA for gastric lipase	20	28	22	20	57	20	20	81
X06182 s at	Human c-Kit proto-oncogene mRNA	38	35	29	78	20	20	20	73
X06256 at	Human mRNA for fibronectin receptor alpha subunit	66	20	20	20	20	20	20	20
X06268 at	Human mRNA for pro-alpha 1(I) collagen 3' end C-term, triple helical and C-terminal non-helical domain	20	20	20	20	20	20	20	20
X06272 at	Human mRNA for desmosome protein (desmoplakin) (EC 2.1.3)	38	58	85	43	20	20	20	73
X06280 at	Human mRNA for apolipoprotein (A)	20	20	20	20	20	20	20	20
X06318 at	Human mRNA for protein kinase C (PKC) type beta 1	20	20	20	20	20	20	20	20
X06322 at	Human MRL3 mRNA for ribosomal protein L3 homologue (MRL3 = mammalian ribosome L3)	98	98	129	108	51	20	20	108
X06360 at	Human mRNA for synaptophysin (p38)	20	20	20	20	20	20	20	20
X06482 at	Human mRNA for growth hormone receptor	31	20	20	20	20	20	20	20
X06502 at	Human mRNA for receptor of retinoic acid	45	80	65	58	24	20	20	20
X06614 at	Human mRNA for ribosomal protein S11	3387	5392	4444	3982	2540	20	20	4027
X06617 at	Human mRNA for 27-LD calbindin	20	20	21	20	30	20	20	31
X06691 at	Human mRNA 3' region for pro-alpha 1(I) collagen	226	124	61	20	56	20	20	20
X06700 s at	Human mRNA for DNA polymerase alpha-subunit	20	20	20	20	20	20	20	20
X06745 at	Human mRNA for DNA polymerase alpha-subunit	20	20	20	20	20	20	20	20
X06825 at	Human mRNA for alcohol beta-tropomyosin	20	20	20	20	20	20	20	20
X06840 at	Human mRNA for high affinity HE receptor alpha-subunit (FCER1)	40	20	20	20	20	20	20	20
X06856 at	Human HAL PhA44 gene for "alpha-tubulin," exons 3-Jun	35	20	20	106	309	20	20	20
X06885 at	Human mRNA for heme oxygenase	257	77	100	66	309	20	20	358
X07024 at	Human X chromosome mRNA for CCG1 protein inv. in cell proliferation	41	78	69	49	63	20	20	71
X07109 at	Human mRNA for protein kinase C (PKC) type beta II	20	20	20	20	20	20	20	20
X07173 at	Human mRNA for second protein of inter-alpha-trypsin inhibitor complex	20	20	20	20	20	20	20	20
X07203 at	Human mRNA for CD20 receptor (S7)	20	103	102	20	64	20	20	64
X07290 at	Human HE 12 gene mRNA	20	39	102	20	114	20	20	131
X07315 at	Human gene for p15 (inhibitor protein 15)	48	48	63	78	108	45	20	45
X07394 at	Human mRNA for G1 protein	38	48	20	20	20	20	20	20
X07435 at	Human DNA for cellular nuclear binding protein (CRBP) exons 3 and 4 (gp-X07435 in type-DNA) (nucleosome)	88	159	60	71	87	20	20	87
X07496 at	Human mRNA for gp19 homodimer from HOK-3 locus	20	20	20	20	20	20	20	20
X07496 at	Human Tanglefoot apoa-1 gene	20	20	20	20	20	20	20	20
X07618 s at	Human mRNA for cytochrome P450 db1 variant a	45	72	20	20	20	20	20	30
X07619 s at	Human mRNA for cytochrome P450 db1 variant b	20	20	20	20	20	20	20	20
X07695 at	Human mRNA for cytochrome P450 db1 variant c	20	20	20	20	20	20	20	20
X07696 at	Human mRNA for cytochrome P450 db1 variant d	20	20	20	20	20	20	20	20
X07696 at	Human mRNA for cytochrome P450 db1 variant e	20	20	20	20	20	20	20	20
X07730 at	Human mRNA for proteinase specific antigen	177	60	492	328	20	20	20	20
X07732 at	Human hepatoma mRNA for serine protease hepsin	62	60	20	20	1221	20	20	347
X07743 at	Human mRNA for plectanin (P47)	20	20	20	20	20	20	20	20
X07787 at	Human mRNA for CAMP-dependent protein kinase catalytic subunit type alpha (EC 2.7.1.37)	68	20	65	46	98	20	20	58

	Expressed RNA in Subepithelial connective tissue, Normal urethrium and Transitional cell carcinoma	20	21	72	24	30	81
X07620 at	Human mRNA for metalloproteinase stromelysin-2	20	20	20	20	20	20
X07634 at	Human mRNA for manganese superoxide dismutase (EC 1.15.1.1)	20	20	20	20	20	20
X07676 at	Human mRNA for lip protein (int-1 related protein)	20	20	20	20	20	20
X07694 at	Human mRNA for transition protein 1 (TP1)	20	20	20	20	20	20
X07696 at	Human mRNA for fibronectin receptor beta subunit	20	20	20	20	20	20
X12433 at	Human mRNA for leucine-phosphatidyl transferase LPH (EC 3.2.1.23-62)	20	20	20	20	20	20
X12437 at	Human pHS-1-2 gene with ORF homologous to membrane receptor proteins	20	20	20	20	20	20
X12451 at	Human adenosine A gene (EC 4.1.2.13)	20	20	20	20	20	20
X12453 at	Human mRNA for pro-cathepsin L (major secreted protein MEP)	20	20	20	20	20	20
X12456 mas at	Human mRNA for cathepsin B (48 KDa protein)	20	20	20	20	20	20
X12462 at	Human P3 gene	20	20	20	20	20	20
X12465 at	Human mRNA for CAAT box binding transcription factor CTF-1 (syn. CTENFI or CTF or NF-1 or NF-1)	20	20	20	20	20	20
X12467 at	Human mRNA for U1 small nuclear RNP-specific C protein	20	20	20	20	20	20
X12468 at	Human mRNA for B lymphocyte antigen CD20 (B1, B220)	20	20	20	20	20	20
X12469 at	Human mRNA for alpha-proteinase inhibitor	20	20	20	20	20	20
X12470 at	H sapiens epsilon genes exon 1 and flanking regions (EC 3.5.3.1) (and joined CDS)	20	20	20	20	20	20
X12471 mas at	Human alpha proteinase inhibitor	20	20	20	20	20	20
X12472 mas at	Human mRNA for 18kD protein of signal recognition particle (SRP)	20	20	20	20	20	20
X12473 at	Human gamma-related est-2 gene	20	20	20	20	20	20
X12474 at	Human mRNA for villin	20	20	20	20	20	20
X12475 at	Human actin "beta"	20	20	20	20	20	20
X12476 at	Human actin "gamma"	20	20	20	20	20	20
X12477 at	Human mRNA treatment for myelin heavy chain	20	20	20	20	20	20
X12478 at	Human mRNA for D-amino acid oxidase (EC 1.4.3.3)	20	20	20	20	20	20
X12479 at	Human mRNA for cytochrome c oxidase subunit VIc	20	20	20	20	20	20
X12480 at	Human mRNA for dopamine beta-hydroxylase type a (EC 1.14.17.1)	20	20	20	20	20	20
X12481 at	Human mRNA for E-myp gene	20	20	20	20	20	20
X12482 at	Human CD14 mRNA for myeloid cell-specific leukine-rich glycoprotein	20	20	20	20	20	20
X12483 at	Human mRNA for CD8 beta-chain glycoprotein (CD8 beta 1)	20	20	20	20	20	20
X12484 at	H sapiens intronless calmodulin-like gene (CIP gene) for calmodulin-like protein	20	20	20	20	20	20
X12485 at	Human mRNA for U2 snRNP-specific A' protein	20	20	20	20	20	20
X12486 at	Human hMG-17 gene for nonhistone chromosomal protein HMG-17	20	20	20	20	20	20
X12487 at	Human beta-casein mRNA 3'-terminal fragment	20	20	20	20	20	20
X12488 at	H sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and joined CDS)	20	20	20	20	20	20
X12489 at	Human OTF-2 mRNA for lymphoid-specific transcription factor	20	20	20	20	20	20
X12490 at	Human mRNA for vascular smooth muscle alpha-actin	20	20	20	20	20	20
X12491 at	Human mRNA for LDL-receptor related protein	20	20	20	20	20	20
X12492 at	Human CYP2A4 mRNA for P-450 IIA4 protein	20	20	20	20	20	20
X12493 at	Human mRNA for myosin alkali light chain	20	20	20	20	20	20
X12494 at	Human 1S RNA induced by poly(I). poly(C) and Newcastle disease virus	20	20	20	20	20	20
X12495 at	Human mRNA for leukemia inhibitory factor (LIFALDA)	20	20	20	20	20	20
X12496 at	Human mRNA for ribonuclease-inhibitor factor (RAI)	20	20	20	20	20	20
X12497 at	Human lyszyme gene (EC 3.2.1.17)	20	20	20	20	20	20
X12498 mas at	Human mRNA for leukocyte antigen CS37	20	20	20	20	20	20
X12499 at	H sapiens mRNA for beta-1,4-galactosyltransferase (EC 2.4.1.22)	20	20	20	20	20	20
X12500 at	Human mRNA for cryptoprotein	20	20	20	20	20	20
X12501 at	Human mRNA for carboxypeptidase N small subunit (EC 3.4.17.3)	20	20	20	20	20	20
X12502 at	Human CR1 mRNA for complement pentacystase	20	20	20	20	20	20
X12503 at	Human GLA gene for alpha-D-glucuronidase (EC 3.2.1.22)	20	20	20	20	20	20
X12504 at	Human mRNA for beta-tubulin associated protein	20	20	20	20	20	20
X12505 at	Human mRNA for plasma prekallikrein activator heavy chain (H3)	20	20	20	20	20	20
X12506 at	Human mRNA for alpha-1-acid glycoprotein	20	20	20			

[illegible]

[illegible]

Expressed RNA in Subendothelial connective tissue, Normal endothelium and Transitional cell carcinomas									
X5654 at	Human DSC1 mRNA for desmoglein type 1	20	20	20	20	20	20	20	20
X5667 at	Human mRNA for catenin	59	59	59	59	59	59	59	59
X5677 at	Human MyoD mRNA	1204	1204	1204	1204	1204	1204	1204	1204
X5687 at	H sapiens mRNA for autophagosome NOR-90	20	20	20	20	20	20	20	20
X5692 at	H sapiens mRNA for C-reactive protein	20	20	20	20	20	20	20	20
X5674 at	H sapiens mRNA for rhes gene	20	20	20	20	20	20	20	20
X5687 at	Human DSC2 mRNA for desmogleins type 2a and 2b	78	78	78	78	78	78	78	78
X5684 at	H sapiens mRNA for 23 kD highly basic protein	540	540	540	540	540	540	540	540
X5683 at	Human UBA52 gene coding for ubiquitin-S2 amino acid fusion protein	4210	4210	4210	4210	4210	4210	4210	4210
X5697 at	Human IGF-1 mRNA for insulin-like growth factor 1	1308	1308	1308	1308	1308	1308	1308	1308
X5702 at	H sapiens H1.2 gene for histone H1	32	32	32	32	32	32	32	32
X5712 at	Human gene for casein kinase II subunit beta (EC 2.7.1.37)	20	20	20	20	20	20	20	20
X5715 at	H sapiens mRNA for 1D-myo-inositol-trisphosphate 3-kinase B isoform	20	20	20	20	20	20	20	20
X5720 at	H sapiens REC11 mRNA	20	20	20	20	20	20	20	20
X5730 at	H sapiens mRNA for HSI protein	20	20	20	20	20	20	20	20
X5734 at	H sapiens mRNA (clone 9112)	20	20	20	20	20	20	20	20
X5735 at	Human 140 gene from interferon-inducible gene family	20	20	20	20	20	20	20	20
X5736 at	Human mRNA for p45 protein	20	20	20	20	20	20	20	20
X5737 at	H sapiens PRNGA2 mRNA	20	20	20	20	20	20	20	20
X5738 at	H sapiens subunit beta-A subunit (exon 2)	20	20	20	20	20	20	20	20
X5739 at	Human splicing factor 2 mRNA	20	20	20	20	20	20	20	20
X5740 at	Human rearranged immunoglobulin lambda light chain mRNA	20	20	20	20	20	20	20	20
X5741 at	H sapiens serotonin 5-HT2 receptor mRNA	20	20	20	20	20	20	20	20
X5742 at	H sapiens mRNA for ribosomal protein L7	20	20	20	20	20	20	20	20
X5743 at	GL105 gene (histone H2B) extracted from H sapiens genes for histones H2B.1 and H2A	20	20	20	20	20	20	20	20
X5744 at	Human mRNA for corticotropin-releasing factor binding protein (CRF-BP)	20	20	20	20	20	20	20	20
X5745 at	Human NG2A3 mRNA for trans-acting T-cell specific transcription factor	20	20	20	20	20	20	20	20
X5746 at	Human mRNA for S100 alpha protein	20	20	20	20	20	20	20	20
X5747 at	Human mRNA for beta actinin	20	20	20	20	20	20	20	20
X5748 at	Human mRNA for anti-lectin antibody epitope (clone p368-5)	20	20	20	20	20	20	20	20
X5749 at	Human P1p-2 gene for fibroblast growth factor receptor	20	20	20	20	20	20	20	20
X5750 at	H sapiens IR-PTP gene for protein tyrosine phosphatase	20	20	20	20	20	20	20	20
X5751 at	Human mRNA for interleukin-6 receptor	20	20	20	20	20	20	20	20
X5752 at	Human mRNA for adipogenesis inhibitory factor	20	20	20	20	20	20	20	20
X5753 at	H sapiens FGF gene, exon 3	20	20	20	20	20	20	20	20
X5754 at	H sapiens D13S105 mRNA for a highly charged amino acid sequence	20	20	20	20	20	20	20	20
X5755 at	Human ZNF43 mRNA	20	20	20	20	20	20	20	20
X5756 at	Human G7a mRNA for vily-RNA synthetase	20	20	20	20	20	20	20	20
X5757 at	H sapiens mRNA for B cell membrane protein CD22	20	20	20	20	20	20	20	20
X5758 at	Human HOXA4 mRNA for a homeobox protein	20	20	20	20	20	20	20	20
X5759 at	Human HOXD10 mRNA for a homeobox protein	20	20	20	20	20	20	20	20
X5760 at	H sapiens gene for membrane cofactor protein	20	20	20	20	20	20	20	20
X5761 at	H sapiens ZNF337 mRNA	20	20	20	20	20	20	20	20
X5762 at	Human rRNA mRNA for rRNA	20	20	20	20	20	20	20	20
X5763 at	Human rRNA for M1 subunit of ribonucleotide reductase	20	20	20	20	20	20	20	20
X5764 at	H sapiens R22 mRNA for small subunit ribonucleotide reductase	20	20	20	20	20	20	20	20
X5765 at	H sapiens cr-like gene CNRL	20	20	20	20	20	20	20	20
X5766 at	H sapiens mRNA for CAAT-box DNA binding protein subunit B (NF-YB)	20	20	20	20	20	20	20	20
X5767 at	H sapiens mRNA for CAAT-box DNA binding protein subunit A	20	20	20	20	20	20	20	20
X5768 at	H sapiens 63 kDa protein kinase related to raf ERK3	20	20	20	20	20	20	20	20
X5769 at	Human ZFX mRNA for put. transcription "activator" isoform 2	20	20	20	20	20	20	20	20
X5770 at	H sapiens mRNA for Zn-alpha2-glycoprotein	20	20	20	20	20	20	20	20

Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinoma						
H.sapiens IL-1R2 mRNA for type II interleukin-1 receptor* (cell line C823)	68	44	30	30	126	142
Human PRAD1 mRNA for cyclin	53	37	324	436	20	20
H.sapiens GTP 27 mRNA for vitamin D 25-hydroxylase	20	128	76	20	20	20
Human rearranged mRNA for glutamine synthase	482	208	263	252	86	275
Human PBX2 mRNA	42	48	68	37	30	146
Human TCF-1 mRNA for T cell factor 1 (splice form C)	42	87	262	85	238	171
H.sapiens mRNA for IFN-inducible gamma2 protein	366	20	20	20	20	28
Human delta CREB mRNA for cAMP-responsive element (CRE) binding protein	338	293	174	324	445	303
Human mRNA for mitochondrial phosphate carrier protein	72	74	105	78	211	134
H.sapiens mRNA for zinc finger protein	196	584	539	115	243	98
Human ERK1 mRNA for protein serine/threonine kinase	20	20	20	20	175	98
H.sapiens mRNA for H-ATP synthase subunit b	158	94	109	83	20	98
H.sapiens KALIC-1 mRNA for neural cell adhesion and axonal path-finding molecule homologue	329	278	333	307	309	328
H.sapiens COA10A gene for collagen (alpha-1 type X)	34	31	72	37	241	141
H.sapiens H4lg gene for H4 histone	34	20	20	20	43	20
H.sapiens H4le gene for H4 histone	20	20	20	20	20	20
H.sapiens H4lg gene for H4 histone	20	20	20	20	20	20
H.sapiens H4le gene for H4 histone	20	20	20	20	20	20
Human CDNA10 mRNA for nerve growth factor receptor-related B-lymphocyte activation molecule	1169	888	1042	849	289	503
H.sapiens EVX1 mRNA	119	179	175	114	189	177
H.sapiens ADG mRNA for adenylate kinase 3	46	87	75	79	140	116
Human pcd37 mRNA for liver diacylglycerol phosphatase IV	49	49	35	20	20	88
Human TYRPP gene for tyrosinase-related protein (TRP-1) (partial)	20	20	20	20	20	20
Human IIS mRNA for putative receptor tyrosine kinase	20	20	20	20	20	20
H.sapiens CD6 mRNA for T cell glycoprotein CD6	60	138	71	65	128	77
Human mRNA for T cell receptor, clone IGRA15	20	20	31	22	20	20
Human mRNA for T cell receptor, clone IGRA17	20	20	20	20	20	20
Human mRNA for T cell receptor, clone IGRA24	28	20	20	20	20	20
Human mRNA for mitochondrial 7S kDa non sulphur protein	40	48	46	66	84	72
Human BTG2 mRNA for a cysteine rich protein with LIM motif	111	94	107	123	103	123
Human RSL3BR2 gene for interferon-gamma receptor type 2	20	20	20	20	20	20
H.sapiens embryonic kidney (au "orgs." clones 13 and 14) gpv361373 myc-DNA anneal-exon	76	37	28	28	68	37
H.sapiens hOG mRNA for GTPases	20	20	20	20	20	20
H.sapiens mRNA for leukemia inhibitory factor (LIF) receptor	47	86	68	47	57	194
Human HOXD30 gene for homeoprotein HOXD30	157	159	174	161	63	20
H.sapiens mRNA for nucleoplasmic reticulum	90	63	112	92	258	121
H.sapiens Wnt1 hu gene	44	20	45	46	41	20
H.sapiens PTP1C mRNA for protein-tyrosine phosphatase TC	107	105	110	132	166	117
H.sapiens mRNA for GM2 activator protein	165	157	184	70	43	130
H.sapiens mRNA for Drosophila female sterile homologous (FSH) homologue	84	177	180	212	20	58
H.sapiens mRNA for P1 protein (P1 h)	56	94	235	240	211	287
H.sapiens mRNA for epithelin 1 and 2	327	231	428	483	563	485
H.sapiens mRNA for transcription factor Pit-1	20	20	20	20	20	20
H.sapiens mRNA for CAMPATH-1 (CDw22) antigen	89	36	20	20	48	517
H.sapiens mRNA for basement membrane heparan sulfate proteoglycan	224	108	86	273	20	145
H.sapiens HMG-2 mRNA	83	20	20	20	127	20
H.sapiens mRNA for dicyclohexyl ketone	155	162	367	315	313	403
H.sapiens RNA for Fc-receptor, TCR	79	68	98	71	139	120
H.sapiens gene for Mx81/CD83 antigen	403	637	1017	913	428	381
H.sapiens mRNA for fibronectin (homologous to yeast S24)	2863	4105	3387	3084	1742	2286
Human RINGB mRNA for HLA class II alpha chain-like product	106	20	20	20	20	20
H.sapiens gene encoding leucyl-glutamate lysozyme 2,5-sialyltransferase*	20	20	20	20	20	20
H.sapiens mRNA for mouse polypeptides (Phyllin)	20	20	20	20	20	20
H.sapiens My1 (PMK) mRNA	20	20	20	20	20	20
H.sapiens HEA mRNA for extracellular proteinase inhibitor homologue	20	20	20	20	20	20
H.sapiens HB2A gene for high sulfur keratin	20	87	65	27	179	20
H.sapiens UGT2B10 mRNA for udp glucuronosyltransferase	40	55	36	84	48	48
H.sapiens mRNA for RSRFR2	122	63	87	217	122	107
H.sapiens mRNA for delta-subunit of mitochondrial F1F0 ATP-synthase (clone #1)	20	20	20	20	122	20
H.sapiens mRNA for delta-subunit of mitochondrial F1F0 ATP-synthase (clone #1)	33	33	20	20	20	20
H.sapiens mRNA for delta-subunit of mitochondrial F1F0 ATP-synthase (clone #1)	145	156	123	96	21	40

Expressed RNA in Suburothelial connective tissue, Normal urothelium and Transitional cell carcinomas									
X65382_c1	H. sapiens mRNA PCTAIRE-3 for serine/threonine protein kinase	50	53	54	47	164	20		
X65383_c1	H. sapiens mRNA PCTAIRE-1 for serine/threonine protein kinase	85	139	26	69	311	254		
X65384_c1	H. sapiens mRNA PSSALRE for serine/threonine protein kinase	80	91	98	112	150	198		
X65385_c1	H. sapiens mRNA PLSTIRE for serine/threonine protein kinase	25	20	45	31	30	26		
X65386_c1	H. sapiens lpr mRNA	62	92	130	111	98	69		
X65387_c1	H. sapiens genes TAP1, TAP2, LMP2, LMP7 and DOB	90	188	70	38	73	205		
X65388_c1	H. sapiens mRNA for acetylcholine receptor (epsilon subunit)	41	92	25	32	25	20		
X65389_c1	H. sapiens casK mRNA for kappa-casein	66	57	79	45	86	200		
X65390_c1	Human adenylsuccinate synthetase mRNA	51	128	159	76	136	243		
X65391_c1	H. sapiens soluble guanylate cyclase small subunit mRNA	20	42	56	52	20	31		
X65392_c1	H. sapiens soluble guanylate cyclase large subunit mRNA	20	45	20	20	20	42		
X65393_c1	H. sapiens mRNA for enolase	20	27	20	20	20	20		
X65394_c1	H. sapiens mRNA for transacylase (DBT)	105	408	588	286	926	274		
X65395_c1	H. sapiens MaT1, MN mRNA for p54 ^{MSN} protein	32	89	101	140	183	161		
X65396_c1	H. sapiens max gene	40	78	64	48	28	20		
X65397_c1	H. sapiens FACC mRNA from complementation group C (FAC(C))	35	30	165	77	112	54		
X65398_c1	H. sapiens FACS mRNA	35	30	20	20	20	20		
X65399_c1	H. sapiens mRNA for myo-inositol triphosphatase	20	20	20	20	20	20		
X65400_c1	H. sapiens N-actin mRNA for fibroblast growth factor receptor	59	33	20	20	20	20		
X65401_c1	H. sapiens histone H4 gene	20	20	20	20	20	20		
X65402_c1	H. sapiens R1S alpha mRNA containing four open reading frames	20	71	23	27	23	20		
X65403_c1	H. sapiens R1S alpha mRNA containing four open reading frames	34	34	23	23	41	20		
X65404_c1	H. sapiens mRNA for proline rich homeobox (Prh) protein	3725	3502	3977	3818	1511	2083		
X65405_c1	H. sapiens p58 gene for ribosomal protein S8	20	20	20	20	20	20		
X65406_c1	H. sapiens mRNA for procarbonylpeptidase A1	102	194	64	20	20	893		
X65407_c1	H. sapiens HPBR11-4 mRNA	27	25	20	20	20	20		
X65408_c1	H. sapiens gene for glutamate dehydrogenase	27	20	20	61	20	20		
X65409_c1	H. sapiens mRNA for MSH receptor	2128	161	114	106	268	189		
X65410_c1	H. sapiens HE2 mRNA	401	372	368	322	285	472		
X65411_c1	H. sapiens tissue specific mRNA	20	33	56	46	172	57		
X65412_c1	H. sapiens mRNA for transient axonal glycoprotein (tag-1)	1472	608	647	648	543	814		
X65413_c1	H. sapiens mRNA for protein tyrosine phosphatase (p90)	20	20	20	20	133	20		
X65414_c1	H. sapiens Fc-gammaR-beta gene for IgG Fc receptor class IIA (51kDa)	20	20	20	20	20	20		
X65415_c1	H. sapiens BLR1 gene for Burtin's lymphoma receptor 1	42	31	124	101	20	21		
X65416_c1	H. sapiens h-Sp1 mRNA	20	20	20	20	20	20		
X65417_c1	H. sapiens MGF gene exons 1&2	1972	105	44	42	74	198		
X65418_c1	H. sapiens CL 100 mRNA for protein tyrosine phosphatase	20	20	20	20	20	20		
X65419_c1	H. sapiens mRNA for glyceral kinase	390	739	734	1019	386	293		
X65420_c1	H. sapiens mRNA for glutathione peroxidase-GI	134	121	145	117	41	77		
X65421_c1	H. sapiens mRNA for A2a adenosine receptor	27	31	34	20	20	20		
X65422_c1	H. sapiens mRNA for A2b adenosine receptor	78	55	51	25	44	84		
X65423_c1	H. sapiens SPR-2 mRNA for GT box binding protein	20	20	23	22	20	20		
X65424_c1	H. sapiens SPR-1 mRNA for GT box binding protein	20	20	20	20	282	227		
X65425_c1	H. sapiens ZNF338 gene	142	185	88	97	92	174		
X65426_c1	H. sapiens gene for alpha-1-antichymotrypsin, exon 1	20	20	20	20	42	35		
X65427_c1	H. sapiens mRNA for "Tigayin" alpha subunit	27	20	24	21	21	20		
X65428_c1	H. sapiens mRNA for S-adenosylmethionine synthetase	20	20	20	20	97	20		
X65429_c1	H. sapiens mRNA for hepatic glutathione S-transferase	20	20	152	71	97	20		
X65430_c1	H. sapiens CREB gene, exon Y	20	20	20	20	20	20		
X65431_c1	H. sapiens mRNA for skeletal muscle 18SD protein	20	20	20	20	20	20		
X65432_c1	H. sapiens mRNA for skeletal muscle 19SD protein	20	20	20	20	20	20		
X65433_c1	H. sapiens PLH11R21 mRNA for helix-loop-helix protein	160	284	556	54	172	190		
X65434_c1	H. sapiens ZNF37A mRNA for zinc finger protein	20	90	98	71	154	32		
X65435_c1	H. sapiens ZNF37A gene for zinc finger protein	20	20	32	20	20	20		
X65436_c1	H. sapiens mRNA for squelone tyrosinase	76	104	89	135	28	85		
X65437_c1	H. sapiens mRNA for ribosomal protein S18	6256	6897	6075	6095	2300	4190		
X65438_c1	H. sapiens mRNA for ribosomal protein L6	2084	2856	2081	1912	891	1054		
X65439_c1	H. sapiens mRNA for OAS antigenic surface determinant	20	20	45	40	20	20		
X65440_c1	H. sapiens mRNA for mitochondrial isocitrate dehydrogenase (NADP+)	212	133	105	160	121	236		
X65441_c1	H. sapiens mRNA for rho GDP-dissociation inhibitor 1	420	362	411	412	629	576		
X65442_c1	H. sapiens mRNA sequence (15q11-13)	28	51	58	43	81	60		
X65443_c1	H. sapiens mRNA for ribosomal protein S26	1050	3815	1712	2534	2872	1457		

Expressed RNA in Suburothelial Connective tissue, Normal urothelium and Transitional cell carcinoma									
X65699 at	H sapiens Pab2 mRNA	183	221	134	125	233	246		
X65819 at	H sapiens ICAM-3 mRNA	20	56	20	20	20	20		
X65835 at	H sapiens mRNA for GSA	37	41	40	28	20	20		
X65836 at	H sapiens F14 mRNA for transmembrane lysine kinase	45	41	65	46	124	52		
X65885 at	H sapiens mRNA for glycerol kinase	20	20	20	20	20	20		
X65910 at	H sapiens gene for mitochondrial ATP synthase c subunit (P2 form)	209	292	437	473	196	233		
X65920 at	H sapiens P63 mRNA for transmembrane protein	217	176	213	138	184	63		
X65950 at	H sapiens mRNA for calcitonin receptor	98	100	140	92	109	24		
X65950 s at	H sapiens DNA sequence for Wilms' tumor gene	23	20	28	22	20	20		
X65962 at	H sapiens FMR-1 mRNA	23	20	28	22	20	20		
X65976 at	H sapiens mRNA for XP-G factor	37	34	29	25	136	61		
X70040 at	H sapiens RCH mRNA for lysine kinase	109	181	273	160	20	230		
X70070 at	H sapiens mRNA for neurotensin receptor	20	20	20	20	20	20		
X70083 at	H sapiens APP-280-like mRNA for filament (B55 bps) (p-X70083 myope-RNA	20	20	20	20	31	20		
X70216 at	H sapiens mRNA for protein phosphatase X	41	72	121	177	83	90		
X70267 at	H sapiens mRNA for neuronal nicotinic acetylcholine receptor alpha-7 subunit	81	66	54	38	37	126		
X70340 at	H sapiens mRNA for transforming growth factor alpha	101	20	20	29	20	26		
X70394 at	H sapiens QZF mRNA	34	32	89	69	72	40		
X70476 at	H sapiens subunit of customer complex	131	186	115	135	90	250		
X70649 at	H sapiens cl 1042 mRNA of DEAD box protein family	44	20	67	56	30	24		
X70649 s at	H sapiens mRNA for SDX-4 protein	58	107	309	403	358	478		
X70663 at	H sapiens mRNA for beta-3 adrenergic receptor	30	25	69	43	20	38		
X70681 at	H sapiens mRNA for elongation factor 1 alpha-2	37	20	476	599	244	90		
X70940 at	H sapiens mRNA for P18-associated splicing factor	46	53	65	54	20	49		
X70944 at	H sapiens MAOER mRNA	20	28	28	45	20	23		
X70991 at	H sapiens MAOER mRNA	20	20	20	20	20	20		
X71125 at	H sapiens mRNA for glutamine cyclotransferase	159	127	127	132	125	124		
X71129 at	H sapiens mRNA for electron transfer flavoprotein beta subunit	86	43	20	20	20	20		
X71135 at	H sapiens soc3 gene	166	67	20	40	43	22		
X71345 s at	H sapiens mRNA for tyrosinogen IV b-form	20	20	20	20	20	20		
X71348 at	H sapiens VHNF1-C mRNA	240	230	459	272	320	190		
X71428 at	H sapiens lus mRNA	48	52	35	29	21	20		
X71480 at	H sapiens mRNA for vacuolar proton ATPase subunit D	20	20	20	20	79	20		
X71601 at	H sapiens ERGIC-53 mRNA	68	488	238	175	86	209		
X71874 chr1 at	H sapiens gene for proteasome-like subunit (MECL-1) chymotrypsin-like protease (PSK-H1) last ex	20	20	20	20	20	20		
X71877 at	H sapiens mRNA for chymotrypsin-like protease CTRL-1	20	20	20	20	20	20		
X71973 at	H sapiens GP-4 mRNA for phospholipid hydroperoxide glutathione peroxidase	287	499	490	571	385	452		
X72012 at	H sapiens eod mRNA for endoglin	20	20	20	20	20	20		
X72117 chr1 at	H sapiens C5 gene, exon 1	71	50	59	57	233	108		
X72304 at	H sapiens mRNA for cardiotropin releasing factor receptor	20	20	20	20	20	20		
X72305 at	H sapiens MCP-3 mRNA for monocyte chemoattractant protein-3	23	20	29	28	20	20		
X72475 at	H sapiens mRNA for rearranged Ig kappa light chain variable region (I.114)	38	96	20	61	182	51		
X72632 s at	H sapiens lung mRNA for transformation upregulated nuclear protein	20	20	20	20	51	27		
X72727 at	Human Hurler mRNA	193	204	577	527	93	162		
X72755 at	Human endogenous retrovirus mRNA for ORF (p-X72755 myope-RNA	20	20	20	20	20	20		
X72760 at	H sapiens IEF 7442 mRNA	193	88	20	27	153	281		
X72841 at	H sapiens 14A2AK DNA sequence	63	43	83	78	60	49		
X72876 at	H sapiens 14A2AK DNA sequence	26	45	20	20	184	111		
X72882 at	H sapiens 14A2AK DNA sequence	20	20	20	20	20	20		
X72889 at	H sapiens mRNA for desmocollin type 1	35	103	170	143	20	84		
X72925 at	H sapiens mRNA for cathepsin	20	20	20	20	20	20		
X72994 at	Human sapiens encoding Polymeric immunoglobulin receptor	62	153	160	115	129	204		
X73079 at	H sapiens mRNA for cathepsin	23	68	27	70	38	61		
X73113 at	H sapiens mRNA for fast MyBP-C	111	104	64	71	134	254		
X73358 s at	H sapiens hAES-1 mRNA	159	153	768	77	293	214		
X73460 at	H sapiens mRNA for ribosomal protein L3	208	309	393	389	617	1838		
X73476 at	H sapiens gene for cytochrome P-450	32	154	294	101	20	32		
X73501 at	H sapiens mRNA for brachyury	20	20	42	190	20	102		
X73605 at	H sapiens PRCA-1 mRNA	37	20	77	20	63	85		
X73682 at	H sapiens E-MAP-115 mRNA	26	20	20	20	32	32		
X74000 at	H sapiens mRNA for protein phosphatase 1 gamma	145	105	178	136	23	107		
X74039 at	H sapiens mRNA for uracilase plasminogen activator receptor	20	20	20	20	64	20		
X74104 at	H sapiens mRNA for TRAP beta subunit	222	249	324	321	227	296		
X74142 at	H sapiens HBF-1 mRNA for transcription factor	20	38	53	20	151	20		
X74282 at	H sapiens RBP46 mRNA encoding retinoblastoma binding protein	42	120	97	60	107	39		
X74285 at	H sapiens mRNA for alpha 7B integrin	94	145	40	50	149	135		
X74301 s at	H sapiens mRNA for MHC class II transactivator	20	20	20	20	20	20		

Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas									
X743.1_mal.1	H sapiens mRNA for CB2 (peripheral) cannabinoid receptor.	50	20	20	20	20	20	20	20
X743.0	H sapiens mRNA for DNA primase (subunit p45)	20	20	20	20	20	20	20	20
X743.1	H sapiens mRNA for DNA primase (subunit p58)	20	20	20	20	20	20	20	20
X74486	H sapiens mRNA for poly (ADP-ribose) polymerase	46	88	82	81	107	383	64	97
X74570	H sapiens mRNA for Gal-beta(1-3)-glucosyltransferase	112	127	137	113	71	205	220	44
X74614	H sapiens ODF2 (elliptic 2) gene for outer dense fiber protein	103	117	113	23	20	20	20	20
X74764	H sapiens mRNA for receptor protein tyrosine kinase	143	190	126	186	289	289	289	289
X74784	H sapiens P1-Cdc21 mRNA	152	211	219	195	259	259	259	259
X74785	H sapiens P1-Cdc21 mRNA	41	81	48	236	236	236	236	236
X74801	H sapiens Cdcp mRNA for chaperonin	20	20	20	20	20	20	20	20
X74819	H sapiens mRNA for cardiac troponin T	20	20	20	20	20	20	20	20
X74837	H sapiens HUM49 mRNA	36	203	217	119	40	912	912	912
X74874_mal.1	RNA polymerase II largest subunit gene extracted from H sapiens gene for RNA pol II largest subunit, exon 1	20	669	2744	2232	2204	2204	2204	2204
X74879	H sapiens KR18 mRNA for keratin 8	20	27	55	20	20	20	20	20
X74897	H sapiens mRNA for 2,5-dihydroxyacid binding protein	20	20	20	20	20	20	20	20
X75004	H sapiens rat pro-oncogene mRNA	38	30	116	49	30	45	45	45
X75009	H sapiens mRNA for HLA-DP associated protein II (DPAPII)	99	75	50	45	101	101	101	101
X75200	H sapiens H4C2 mRNA for protein tyrosine kinase inhibitor	247	307	214	264	390	220	220	220
X75252	H sapiens phosphotyrosine-dependent binding protein mRNA	24	95	133	114	48	78	78	78
X75304	H sapiens gliadin mRNA	20	20	20	20	20	20	20	20
X75306	H sapiens mRNA for collagenase 3	31	132	113	105	143	117	117	117
X75315	H sapiens SHB mRNA	20	20	20	20	20	20	20	20
X75342	H sapiens mRNA for MAP kinase activated protein kinase	20	20	20	20	20	20	20	20
X75346	H sapiens mRNA for P-4F protein	65	63	56	40	415	174	174	174
X75335	H sapiens mRNA for fibronectin	260	359	287	235	242	153	153	153
X75546	H sapiens mRNA for rab 13	23	122	110	193	62	62	62	62
X75593	H sapiens PR254 gene	26	37	22	21	85	36	36	36
X75755_mal.1	H sapiens mRNA for protein kinase C mu	290	290	502	459	277	218	218	218
X75756	H sapiens TEGT gene	20	20	20	20	20	20	20	20
X75801	H sapiens mRNA for fetal beta-MHC binding factor	48	20	20	20	20	20	20	20
X75918	H sapiens mRNA for NOT	20	20	20	20	20	20	20	20
X75963	H sapiens H4B mRNA for protein-tyrosine kinase	20	20	20	20	20	20	20	20
X75965	H sapiens mRNA for OX40 homolog	31	98	72	50	70	63	63	63
X75966	H sapiens OX40 homolog	215	342	451	417	154	285	285	285
X76013	H sapiens OX40 homolog	150	20	20	20	20	20	20	20
X76025	H sapiens mRNA for glucanase	20	20	20	20	20	20	20	20
X76040	H sapiens mRNA for Lcn protease-like protein	46	16	85	70	180	55	55	55
X76057	H sapiens P1MT mRNA for phosphomannose isomerase	20	20	20	20	20	20	20	20
X76059	H sapiens mRNA for YRRM1	35	20	20	20	20	20	20	20
X76061	H sapiens p130 mRNA for 130K protein	89	95	72	51	106	100	100	100
X76092	H sapiens HRFX3 mRNA	20	20	20	20	20	20	20	20
X76104	H sapiens DAP-1 kinase mRNA	20	20	20	20	20	20	20	20
X76105	H sapiens DAP-1 kinase	67	32	32	45	33	54	54	54
X76132	H sapiens DCC mRNA	255	104	353	253	20	48	48	48
X76160	H sapiens mRNA for lung embolus sensitive Na+ channel protein	3490	175	153	124	70	123	123	123
X76223	H sapiens mRNA for vacuolar H+ ATPase E subunit	132	85	71	48	97	174	174	174
X76228	H sapiens RV-1 mRNA for putative nucleic acid binding protein	20	20	20	20	20	20	20	20
X76302	H sapiens ADH7 mRNA	20	20	20	20	20	20	20	20
X76342	H sapiens gene for urokinase-type plasminogen activator	20	20	20	20	20	20	20	20
X76343	H sapiens gene for urokinase-type plasminogen activator	142	125	31	142	324	437	437	437
X76349	H sapiens M4B mRNA	62	107	65	75	67	64	64	64
X76350	H sapiens M4B mRNA	47	107	65	75	67	64	64	64
X76446	H sapiens mRNA for glucanase	25	107	65	75	67	64	64	64
X76717	H sapiens M4B mRNA	25	107	65	75	67	64	64	64
X76732	H sapiens M4B mRNA	25	107	65	75	67	64	64	64
X76770	H sapiens NEFA protein, mRNA, complete cds (DNA-binding EF-hand protein, calcium-binding EF-hand protein, from acute lymphoblastic leukemia cell line)	20	20	20	20	20	20	20	20
X76942	H sapiens mRNA for p40phox	21	20	20	20	20	20	20	20
X77064	H sapiens gene for L-type type protease "inhibitor" HKBP9	20	20	20	20	20	20	20	20
X77166	H sapiens mRNA for chloride channel	20	20	20	20	20	20	20	20
X77307	H sapiens mRNA for 5-HT2B serotonin receptor	27	20	20	20	20	20	20	20
X77366	H sapiens HBZ17 mRNA	59	43	102	99	25	20	20	20
X77383	H sapiens mRNA for cathepsin-O	20	20	20	20	20	20	20	20
X77532	H sapiens mRNA for activin type II receptor	20	20	20	20	20	20	20	20
X77548	H sapiens cDNA for RFG	67	39	69	75	25	79	79	79
X77567	H sapiens mRNA for InsP3 5-phosphatase	20	20	20	20	20	20	20	20

[illegible]

Expressed RNA in Subepithelial connective tissue, Normal urothelium and Transitional cell carcinomas									
H sapiens PHK1G1 mRNA	43	62	60	57	123	66			
H sapiens ERK3 mRNA	276	115	129	154	57	94			
H sapiens OXA1H1 mRNA	94	44	120	106	55	26			
H sapiens mRNA for GTP-binding protein	123	196	130	206	206	152			
H sapiens gene for 5-HT2c receptor	124	115	458	148	609	134			
H sapiens mRNA for metabotropic glutamate receptor type 4	84	180	472	250	542	277			
H sapiens mRNA for ORF	3963	3471	4092	3997	2278	2840			
H sapiens R. luteus B. mRNA	20	20	20	20	20	20			
H sapiens mRNA for p45 beta subunit of phosphatidylinositol-3-kinase	62	46	79	63	213	169			
H sapiens alpha NAC mRNA	1203	939	1180	1144	352	666			
H sapiens PPT1 CB mRNA	81	88	80	44	20	33			
H sapiens GAT5 gene	101	85	88	70	140	174			
H sapiens ov gene, (gp-XB0923) myp=DNA/annot=mRNA	48	32	52	41	54	69			
H sapiens HCG V mRNA	89	84	103	96	20	20			
H sapiens mRNA (clone p5) for archaean	20	20	22	20	87	53			
H sapiens mRNA for PPH beta subunit protein	20	20	20	20	20	41			
H sapiens mRNA for biphenyl hydrolase-related protein	20	20	27	20	20	20			
H sapiens mRNA for PHK1 protein	20	20	20	20	20	48			
H sapiens mRNA for amphipysin	20	20	20	20	20	20			
H sapiens mRNA for EMR1 hormone receptor	20	20	20	20	20	20			
H sapiens mRNA for C11 protein	54	48	68	104	20	90			
H sapiens cathenin light chain a gene	20	20	20	20	20	20			
H sapiens cathenin light chain b gene	20	20	20	20	147	20			
H sapiens DS-1 mRNA	40	50	44	56	20	46			
H sapiens BAP31 mRNA	268	395	828	944	365	371			
H sapiens mRNA for glucose-dependent insulinotropic polypeptide receptor gene	20	20	20	20	20	20			
H sapiens mRNA for Dent Disease candidate gene	20	20	20	20	20	20			
H sapiens IL-4 gene splice variant, (gp-XB1851) myp=RNA	20	20	20	20	20	20			
H sapiens mRNA for for vasopressin activated calcium mobilizing receptor-like protein	38	24	25	24	81	24			
H sapiens mRNA for P0071 protein	20	20	20	20	20	20			
H sapiens mRNA for HEB TM7 receptor	20	20	20	20	20	20			
H sapiens GENS-5624 mRNA, 3' UTR, (gp-XB1895) myp=RNA	20	20	20	20	20	20			
H sapiens mRNA for Z10 protein	20	20	20	20	20	20			
H sapiens mRNA for glutamate receptor subunit GluR6	20	20	20	20	20	20			
H sapiens mRNA for beta-COP	66	82	87	98	111	76			
H sapiens HOK-2 mRNA for zinc finger protein	20	24	20	20	20	20			
H sapiens mRNA for cathelin O	114	81	20	20	20	63			
H sapiens Sur50 mRNA	97	129	131	20	60	154			
H sapiens mRNA for alpha-actinin	20	20	20	42	20	38			
H sapiens mRNA for beta-actinin (PC3)	27	36	65	48	23	34			
H sapiens MN1 mRNA	20	20	20	20	20	20			
H sapiens mRNA for glutamine transaminase K	20	20	20	20	20	20			
H sapiens mRNA for T cell leukemia/lymphoma 1	20	20	20	20	20	20			
H sapiens "Fas", Apo-1 gene (promoter and exon 1), (gp-XB2279) myp=DNA/annot=exon	20	20	20	20	20	20			
H sapiens Brain 4 mRNA	20	24	20	20	111	20			
H sapiens mRNA for annexin	237	130	337	153	323	369			
H sapiens MNSO mRNA	142	190	389	315	697	186			
H sapiens mRNA for MAGI-2	56	20	20	20	20	20			
H sapiens SVHR gene for cyclin-related protein	20	20	20	20	20	20			
H sapiens SPVAR gene for cyclin-related protein	27	39	21	20	71	20			
H sapiens mRNA for Mox-2	25	20	20	20	20	20			
H sapiens partial mRNA for hair keratin acidic 3-11	20	20	20	20	20	20			
H sapiens mRNA for tyrosine phosphatase	20	20	20	20	20	20			
H sapiens mRNA for E48 antigen	20	20	20	20	20	20			
H sapiens mRNA for voltage-activated sodium channel	1046	492	831	1292	287	20			
H sapiens mRNA for thyroid transcription factor 1	20	20	20	20	20	20			
H sapiens Na+-D-glucose cotransport regulator gene	26	41	36	55	51	20			
H sapiens mRNA for DLG2	124	123	128	108	364	155			
H sapiens Bmi mRNA for cytoplasmic tyrosine kinase	20	20	20	20	20	20			
H sapiens mRNA for voltage gated potassium channels - beta subunit	20	20	20	20	20	20			
H sapiens mRNA for ATP synthase	322	190	288	240	97	187			
H sapiens mRNA for Li-cathem	20	20	20	20	20	20			
H sapiens mRNA for phosphatidylinositol 3 kinase gamma	20	20	20	20	20	20			
H sapiens mRNA for purifying chloride channel	20	20	20	20	20	20			
H sapiens B1 mRNA for mcdn	34	60	20	30	30	20			
H sapiens PPT1 CB gene, exon 2	70	58	72	46	38	20			
H sapiens PPT1 CB gene, exon 2	128	139	124	159	87	20			

Expressed RNA in Suburothelial connective tissue, Normal umbellum and Transitional cell carcinomas		
H sapiens mRNA for DGC86 protein	154	163
H sapiens mRNA for NC2 alpha subunit	160	245
H sapiens mRNA for NOV protein	20	20
H sapiens mRNA for PAN protein	20	58
H sapiens mRNA for D1075-like gene	52	32
H sapiens mRNA for AUC1 (activator-induced C-type lectin)	120	104
H sapiens mRNA for L-3-hydroxyacyl-CoA dehydrogenase	20	36
H sapiens mRNA for melanoma-associated chondroitin sulfide proteoglycan (MCSP)	20	20
H sapiens gene encoding kappa light chain constant region	20	20
H sapiens SVI V gene (genomic and cDNA sequence)	20	69
H sapiens 5' mRNA of PECAM-1 molecule, (bp=58649 mype-RNA	212	104
H sapiens gene encoding mitochondrial citrate transport protein	56	21
H sapiens mRNA for Urea transporter	23	42
H sapiens mRNA for P276 receptor	20	20
H sapiens mRNA for Sec23A isoform, 2748bp	20	20
H sapiens mRNA for Sec23B isoform, 2450bp	63	20
H sapiens mRNA for cathepsin-associated protein	247	148
H sapiens TFE3 gene, exons 1,2,3 (and joined CDS)	101	81
H sapiens mRNA for receptor Phosphatase PCP-2	24	43
H sapiens mRNA for MK "receptor", clone library 4N166	46	40
H sapiens mRNA for lactate-ten primary oncogene protein 1	41	40
H sapiens mRNA for metalloprotein domain IR	20	30
H sapiens mRNA for metalloprotein domain IR	20	30
H sapiens LPAP gene	20	20
H sapiens mRNA for Pig-11 protein, (bp=497301 mype-RNA	20	20
H sapiens mRNA for Pig-1 protein, (bp=497302 mype-RNA	90	100
H sapiens mRNA for Pig-12 protein, (bp=497303 mype-RNA	20	20
H sapiens mRNA for edipophilin, (bp=497324 mype-RNA	20	141
H sapiens mRNA for kinase A anchor protein	20	20
H sapiens mRNA for transmembrane protein Tmp21-like, (bp=497444 mype-RNA	24	36
H sapiens mRNA for TIM17 preprotein translocase	20	21
H sapiens mRNA for serine/threonine protein kinase EMK	20	20
H sapiens mRNA for erythropoietin receptor	20	20
H sapiens mRNA for transcriptional intermediary factor 2	20	20
H sapiens mRNA for Plectrophin 2a and b	20	20
H sapiens PT23 gene promoter region, (bp=497746 mype-DNA trans-mRNA	20	20
H sapiens mRNA homologous to S. cerevisiae RAD54	20	20
H sapiens mRNA for glycerophenyl transferase II	70	45
H sapiens mRNA for tenascin-R	225	202
H sapiens mRNA for MACH-alpha-1 protein	45	42
H sapiens mRNA for MACH-beta-1 protein, (bp=498176 mype-RNA	24	30
H sapiens mRNA for MACH-beta-4 protein, (bp=498178 mype-RNA	20	31
H sapiens mRNA for UV-B depressed "sequence", HUR 8 (bp=498206 mype-RNA	20	20
H sapiens mRNA for gastrin-binding protein, (bp=498225 mype-RNA	20	20
H sapiens mRNA for sortilin	45	22
H sapiens 2NF163 gene, (bp=498253 mype-RNA	23	62
H sapiens mRNA for h-phase "proteasome", mps8	20	20
H sapiens mRNA for h-phase "proteasome", mps11	43	35
H sapiens mRNA for h-phase "proteasome", mps5	81	55
H sapiens mRNA for h-phase "proteasome", mps6	89	56
H sapiens mRNA for h-phase "proteasome", X-1	20	20
H sapiens mRNA for h-phase "proteasome", X-1	84	169
H sapiens mRNA for h-phase "proteasome", X-1	43	113
H sapiens mRNA for h-phase "proteasome", X-1	12	113
H sapiens mRNA for h-phase "proteasome", X-1	30	20
H sapiens mRNA for h-phase "proteasome", X-1	30	20
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H sapiens mRNA for h-phase "proteasome", X-1	30	20
H sapiens mRNA for h-phase "proteasome", X-1	30	20

[illegible]

[illegible]

Genbank	Gene ID	Gene name	covariance
AB000584_at	AB000584	TGF-beta superfamily protein,	av dif neg
AB002533_at	KPNA4	Qip1, :karyopherin alpha 4	av dif neg
AB002559_at	AB002559	hunc18b2,	av dif neg
AB003102_at	AB003102	26S proteasome subunit p44.5,	av dif neg
AB006782_at	AB006782	galectin-9 isoform,	av dif neg
AC002045_xpt2_s_at	AC002045	Chromosome 16 BAC clone CIT987	av dif neg
AC002073_cds1_at	AC002073	PAC clone DJ515N1 from 22q11.2	av dif neg
AC002115_cds1_at	AC002115	DNA from overlapping chromosom	av dif neg
AC002115_cds4_at	AC002115	DNA from overlapping chromosom	av dif neg
AD000092_cds1_at	CH19HHR23	DNA from chromosome 19p13.2 co	av dif neg
AF000562_at	AF000562	uroplakin II mRNA,	av dif neg
AF001359_f_at	AF001359	DNA mismatch repair protein \	av dif neg
AF009368_at	AF009368	Luman mRNA, :Luman "mRNA," /	av dif neg
AF015913_at	SKB1	SKB1Hs mRNA, :skb1 \S. pombe	av dif neg
D00017_at	HUMLIC	lipocortin II, :annexin II	av dif neg
D00408_s_at	HUMXYPFLA	fetal liver cytochrome P-450	av dif neg
D00596_at	HUMTS1	gene for thymidylate synthase,	av dif neg
D00654_at	HUMACTSG7	gene for enteric smooth muscle	av dif neg
D10523_at	HUM2OGDH	2-oxoglutarate dehydrogenase,	av dif neg
D11086_at	HUMIL2RG	interleukin 2 receptor gamma	av dif neg
D11086_at	HUMIL2RG	interleukin 2 receptor gamma	av dif neg
D11094_at	HUMMSS1	MSS1, :proteasome \prosome,	av dif neg
D11327_s_at	HUMLCPTP	protein-tyrosine phosphatase,	av dif neg
D13118_at	HUMATPSCP1	P1 ATP synthase subunit c, :	av dif neg
D13413_ma1_s_at	HUMTA120	tumor-associated 120 kDa nucl	av dif neg
D13643_at	HUMRSC390	KIAA0018 gene, :KIAA0018 gen	av dif neg
D13705_s_at	HUMOMHY	fatty acids omega-hydroxylase	av dif neg
D13748_at	HUM4AI	eukaryotic initiation factor	av dif neg
D14043_at	HUMMGC24	MGC-24, : "MGC-24," complete	av dif neg
D14530_at	HUMRSPT	homolog of yeast ribosomal pro	av dif neg
D14710_at	HUMIPASAS2	ATP synthase alpha subunit,	av dif neg
D16294_at	HUMDSAEC	mitochondrial 3-oxoacyl-CoA t	av dif neg
D16562_at	HUMATPSGL	ATP synthase gamma-subunit \	av dif neg
D16581_at	HUM8ODGTP	8-oxo-dGTPase, : "8-oxo-dGTP	av dif neg
D17516_at	HUMPACAPR	PACAP receptor, :adenylate c	av dif neg
D17516_at	HUMPACAPR	PACAP receptor, :adenylate c	av dif neg
D17525_at	D17525	precursor of P100 serine prot	av dif neg
D21063_at	HUMORFAAA	KIAA0030 gene,	av dif neg
D21261_at	HUMORFFA	KIAA0120 gene, :transgelin 2	av dif neg
D23660_at	HUMRSP	ribosomal protein, : ribosom	av dif neg
D25218_at	HUMORFN	KIAA0112 gene,	av dif neg
D25218_at	HUMORFN	KIAA0112 gene,	av dif neg
D25248_at	HUMRES44	mRNA, clone:RES4-4.	av dif neg
D25248_at	HUMRES44	mRNA, clone:RES4-4.	av dif neg
D25278_at	HUMORFO	KIAA0036 gene, :KIAA0036 gen	av dif neg
D25303_at	HUMIAS	integrin alpha subunit,	av dif neg
D26129_at	HUMRNASA	ribonuclease A \RNase A\),	av dif neg
D26528_at	HUMRNA	RNA helicase, :DEAD/H \Asp-	av dif neg
D26535_s_at	HUMDS	gene for dihydrolipoamide succ	av dif neg
D26599_at	HUMPSH2	proteasome subunit HsC7-I, :	av dif neg
D28383_at	HUMASB42	ATP synthase B chain, 5'UTR	av dif neg
D28589_at	HUMKG1E	mRNA \KIAA00167\), partial se	av dif neg
D28915_at	HUMHCAMAP8	gene for hepatitis C-associate	av dif neg
D29012_at	HUMPSY	proteasome subunit Y, : prot	av dif neg

D29641_at	HUMORFA02	KIAA0052 gene,	av dif neg
D29958_at	HUMORFA10	KIAA0118 gene,	av dif neg
D30655_at	HUMELF4AII	eukaryotic initiation factor	av dif neg
D31764_at	HUMORFKG1C	KIAA0084 gene, :KIAA0084 gen	av dif neg
D31764_at	HUMORFKG1C	KIAA0064 gene, :KIAA0064 gen	av dif neg
D31883_at	HUMORFKG1L	KIAA0059 gene, : KIAA0059 "g	av dif neg
D31884_at	HUMORFKG1M	KIAA0063 gene, :KIAA0063 gen	av dif neg
D31884_at	HUMORFKG1M	KIAA0063 gene, :KIAA0063 gen	av dif neg
D31891_at	HUMORFKG1T	KIAA0067 gene, :SET domain,	av dif neg
D32129_f_at	HUMHLAAD	HLA class-I \ (HLA-A26\) heavy	av dif neg
D38047_at	HUMPSP31	26S proteasome subunit p31,	av dif neg
D38555_at	HUMORF008	KIAA0079 gene, :Sec24p, S. C	av dif neg
D38583_at	HUMCOLO	calgizzarin, : "calgizzarin,	av dif neg
D42048_at	HUMKIAAJ	KIAA0083 gene, :DNA2 \ (DNA r	av dif neg
D42048_at	HUMKIAAJ	KIAA0083 gene, :DNA2 \ (DNA r	av dif neg
D42047_at	HUMKIAAK	KIAA0089 gene, : KIAA0089 "g	av dif neg
D43682_s_at	HUMVLCAD	very-long-chain acyl-CoA dehy	av dif neg
D45370_at	HUMUPST1	apM2 GS2374 \ (unknown product	av dif neg
D49396_at	HUMAOP1	Apo1_ \ (MER5 \ (Aop1-Mouse \)-lik	av dif neg
D49488_at	HUMHTTP	alpha-tocopherol transfer pro	av dif neg
D49728_at	HUMNAK1	NAK1 DNA binding protein,	av dif neg
D49824_s_at	HUMHLABAA	HLA-B null allele mRNA. :HLA-B	av dif neg
D50640_at	D50625S16	DNA for phosphodiesterase 3B,	av dif neg
D63478_at	KIAA0144	KIAA0144 gene, :KIAA0144 gen	av dif neg
D63479_s_at	D63479	KIAA0145 gene,	av dif neg
D63485_at	KIAA0151	KIAA0151 gene, :KIAA0151 gen	av dif neg
D63486_at	KIAA0152	KIAA0152 gene, :KIAA0152 gen	av dif neg
D63851_at	D63851	unc-18 homologue,	av dif neg
D78129_at	HUMHL1115B	squalene epoxidase,	av dif neg
D78275_at	PSMC6	proteasome subunit p42, :pro	av dif neg
D79205_at	D79205	ribosomal protein L39,	av dif neg
D79984_s_at	D79984	KIAA0162 gene,	av dif neg
D79984_s_at	D79984	KIAA0162 gene,	av dif neg
D80002_at	D80002	KIAA0180 gene,	av dif neg
D82345_at	D82345	NB thymosin beta,	av dif neg
D86425_at	D86425	osteonidogen,	av dif neg
D86974_at	D86974	KIAA0220 gene, : " KIAA0220 "	av dif neg
D86985_at	KIAA0232	KIAA0232 gene, :KIAA0232 gen	av dif neg
D87258_at	D87258	serin protease with IGF-bindi	av dif neg
D87735_at	RPL14	ribosomal protein L14, :ribo	av dif neg
D87953_at	D87953	RTP, : "RTP," complete cds	av dif neg
D89052_at	ATP6F	proton-ATPase-like protein,	av dif neg
HG1034-HT1034_f_at	<empty>	<empty>	av dif neg
HG1400-HT1400_s_at	<empty>	<empty>	av dif neg
HG1428-HT1428_s_at	HG1428-HT1428	: ""Globin," " Beta"	av dif neg
HG1428-HT1428_s_at	HG1428-HT1428	: ""Globin," " Beta"	av dif neg
HG1515-HT1515_f_at	HG1515-HT1515	:Transcription Factor Btf3b	av dif neg
HG1515-HT1515_f_at	HG1515-HT1515	:Transcription Factor Btf3b	av dif neg
HG1614-HT1614_at	HG1614-HT1614	:Protein Phosphatase "1," Alp	av dif neg
HG1614-HT1614_at	HG1614-HT1614	:Protein Phosphatase "1," Alp	av dif neg
HG1800-HT1823_at	<empty>	<empty>	av dif neg
HG1872-HT1907_at	<empty>	<empty>	av dif neg
HG1872-HT1907_at	<empty>	<empty>	av dif neg
HG1980-HT2023_at	<empty>	<empty>	av dif neg
HG2147-HT2217_r_at	<empty>	<empty>	av dif neg

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HG2149-HT2219_at	<empty>	<empty>	av dif neg
HG2167-HT2237_at	<empty>	<empty>	av dif neg
HG2197-HT2287_s_at	HG2197-HT2267	: ""Collage,"" Type ""Vii,""	av dif neg
HG2238-HT2321_s_at	HG2238-HT2321	: "Nuclear Mitotic Apparatus P	av dif neg
HG2239-HT2324_r_at	<empty>	<empty>	av dif neg
HG2239-HT2324_r_at	<empty>	<empty>	av dif neg
HG2264-HT2360_at	<empty>	<empty>	av dif neg
HG2279-HT2375_at	HG2279-HT2375	: Triosephosphate Isomerase	av dif neg
HG2566-HT4867_at	HG2566-HT4867	: Microtubule-Associated Prote	av dif neg
HG2788-HT2896_at	HG2788-HT2896	: Calcyclin	av dif neg
HG2815-HT2931_at	<empty>	<empty>	av dif neg
HG2815-HT2931_s_at	<empty>	<empty>	av dif neg
HG2815-HT4023_s_at	<empty>	<empty>	av dif neg
HG2873-HT3017_at	<empty>	<empty>	av dif neg
HG2917-HT3061_f_at	HG2917-HT3061	: "Major Histocompatibility ""	av dif neg
HG2917-HT3061_f_at	HG2917-HT3061	: "Major Histocompatibility ""	av dif neg
HG2981-HT3127_s_at	<empty>	<empty>	av dif neg
HG2994-HT4850_s_at	<empty>	<empty>	av dif neg
HG3039-HT3200_at	<empty>	<empty>	av dif neg
HG3076-HT3238_s_at	HG3076-HT3238	: "Heterogeneous Nuclear Ribon	av dif neg
HG3107-HT3283_s_at	<empty>	<empty>	av dif neg
HG3107-HT3283_s_at	<empty>	<empty>	av dif neg
HG311-HT311_at	<empty>	<empty>	av dif neg
HG3214-HT3391_at	<empty>	<empty>	av dif neg
HG3236-HT3413_f_at	<empty>	<empty>	av dif neg
HG3254-HT3431_at	<empty>	<empty>	av dif neg
HG3342-HT3519_s_at	HG3342-HT3519	: Id1	av dif neg
HG3364-HT3541_at	HG3364-HT3541	: Ribosomal Protein L37	av dif neg
HG33-HT33_at	HG33-HT33	<empty>	av dif neg
HG3484-HT3678_s_at	<empty>	<empty>	av dif neg
HG3514-HT3708_at	HG3514-HT3708	: Tropomyosin "Tm30nm," Cytosk	av dif neg
HG3543-HT3739_at	HG3543-HT3739	: Insulin-Like Growth Factor 2	av dif neg
HG3543-HT3739_at	HG3543-HT3739	: Insulin-Like Growth Factor 2	av dif neg
HG3549-HT3751_at	HG3549-HT3751	: Wilm'S Tumor-Related Protein	av dif neg
HG3570-HT3773_at	HG3570-HT3773	: Protein Phosphatase Inhibito	av dif neg
HG3576-HT3779_f_at	<empty>	<empty>	av dif neg
HG3576-HT3779_f_at	<empty>	<empty>	av dif neg
HG3731-HT4001_at	<empty>	<empty>	av dif neg
HG384-HT384_at	HG384-HT384	: Ribosomal Protein L26	av dif neg
HG384-HT384_at	HG384-HT384	: Ribosomal Protein L26	av dif neg
HG3945-HT4215_at	<empty>	<empty>	av dif neg
HG3991-HT4261_r_at	<empty>	<empty>	av dif neg
HG4020-HT4290_s_at	HG4020-HT4290	: Transglutaminase	av dif neg
HG4258-HT4528_at	<empty>	<empty>	av dif neg
HG4319-HT4589_at	HG4319-HT4589	: Ribosomal Protein L5	av dif neg
HG4338-HT4606_at	<empty>	<empty>	av dif neg
HG4533-HT4938_at	<empty>	<empty>	av dif neg
HG4542-HT4947_at	HG4542-HT4947	: Ribosomal Protein L10	av dif neg
HG4557-HT4962_r_at	<empty>	<empty>	av dif neg
HG4668-HT5083_s_at	<empty>	<empty>	av dif neg
HG4668-HT5083_s_at	<empty>	<empty>	av dif neg
HG4749-HT5197_at	<empty>	<empty>	av dif neg
HG613-HT613_at	HG613-HT613	: Ribosomal Protein S12	av dif neg
HG613-HT613_at	HG613-HT613	: Ribosomal Protein S12	av dif neg

HG821-HT821_at	<empty>	<empty>	av dif neg
HG880-HT880_at	<empty>	<empty>	av dif neg
HG880-HT880_at	<empty>	<empty>	av dif neg
HG987-HT987_at	HG987-HT987	:Mac25 :Mac25	av dif neg
J00105_s_at	HSMGLO	messenger RNA fragment for the	av dif neg
J02611_at	HUMAPOD	apolipoprotein D mRNA, :apoli	av dif neg
J02611_at	HUMAPOD	apolipoprotein D mRNA, :apoli	av dif neg
J02683_s_at	HUMATPC	ADP/ATP carrier protein mRNA,	av dif neg
J02783_at	HUMTHBP	thyroid hormone binding protei	av dif neg
J02874_at	HUMALBP	adipocyte lipid-binding protei	av dif neg
J02874_at	HUMALBP	adipocyte lipid-binding protei	av dif neg
J02902_at	HUMP2A	protein phosphatase 2A regulat	av dif neg
J02906_at	HUMCYP11F	cytochrome P45011F1 protein (\	av dif neg
J03077_s_at	HUMGLBA	co-beta glucosidase (\proactiv	av dif neg
J03242_s_at	HUMGFIL2	insulin-like growth factor II m	av dif neg
J03242_s_at	HUMGFIL2	insulin-like growth factor II m	av dif neg
J03592_at	HUMTLCA	ADP/ATP translocase mRNA, 3' e	av dif neg
J03756_at	HUMGHVA	growth hormone-variant (\GH1\)	av dif neg
J03801_f_at	HUMLSZ	lysozyme mRNA, complete cds wi	av dif neg
J03909_at	HUMIIP	gamma-interferon-inducible pro	av dif neg
J03909_at	HUMIIP	gamma-interferon-inducible pro	av dif neg
J03934_s_at	HUMNMOR	Human, NAD(P)H:menadione oxi	av dif neg
J04093_s_at	HUMUGT1FA	phenol UDP-glucuronosyltransfe	av dif neg
J04093_s_at	HUMUGT1FA	phenol UDP-glucuronosyltransfe	av dif neg
J04152_ma1_s_at	HUMGA733A	gastrointestinal tumor-associa	av dif neg
J04164_at	HUM927A	interferon-inducible protein 9	av dif neg
J04164_at	HUM927A	interferon-inducible protein 9	av dif neg
J04173_at	HUMPGAM	phosphoglycerate mutase (\PGAM	av dif neg
J04611_at	HUMANP70	lupus p70 (\Ku\ autoantigen p	av dif neg
J04615_at	HUMSNRAA	lupus autoantigen (\small nucl	av dif neg
J04617_s_at	HUMEF1A	elongation factor EF-1-alpha g	av dif neg
J04973_at	HUMCOR2M	cytochrome bc-1 complex core p	av dif neg
J05036_s_at	HUMCTSE	cathepsin E mRNA, :cathepsin	av dif neg
J05036_s_at	HUMCTSE	cathepsin E mRNA, :cathepsin	av dif neg
J05272_at	HUMIMPH	IMP dehydrogenase type 1 mRNA	av dif neg
K02405_f_at	HUMMHDC3B	MHC class II HLA-DC-3-beta gen	av dif neg
K03189_f_at	HUMCGBEL03	chorionic gonadotropin beta su	av dif pos
K03430_at	HUMC1QB2	complement C1q B-chain gene, e	av dif pos
K03430_at	HUMC1QB2	complement C1q B-chain gene, e	av dif pos
L00634_s_at	HUMFPTA	famesyl-protein transferase a	av dif pos
L02326_f_at	HUMPREBLYM	(\clone Hu lambda-17\ lambda-	av dif pos
L04270_at	HUMTNFRFP	(\clone CD18\ tumor necrosis	av dif pos
L04483_s_at	HUMRPS21X	ribosomal protein S21 (\RPS21	av dif pos
L04490_at	HUMNADH	(\clone CC8\ NADH-ubiquinone	av dif pos
L05072_s_at	HUMIFNRF1A	interferon regulatory factor 1	av dif pos
L05188_f_at	HUMSPRR2B	small proline-rich protein 2	av dif pos
L06499_at	HUMRPL37A	ribosomal protein L37a (\RPL37	av dif pos
L06505_at	HUML12A	ribosomal protein L12 mRNA, :	av dif pos
L06797_s_at	HUMGPCR	(\clone L5\ orphan G protein-	av dif pos
L06797_s_at	HUMGPCR	(\clone L5\ orphan G protein-	av dif pos
L07044_at	HUMCCDPKB	calcium/calmodulin-dependent p	av dif pos
L08666_at	HUMPORIN	porin (por) mRNA, complete c	av dif pos
L09209_s_at	HUMAMYLOID	amyloid protein homologue mRNA	av dif pos
L10413_at	HUMFTA	famesyltransferase alpha-subu	av dif pos
L11566_at	HUMRPL18A	ribosomal protein L18 (\RPL18	av dif pos

L11672_at	HUMKRUPZN	Kruppel related zinc finger pr	av dif pos
L11708_at	HUMB17HSD	17 beta hydroxysteroid dehydro	av dif pos
L11708_at	HUMB17HSD	17 beta hydroxysteroid dehydro	av dif pos
L12711_s_at	HUMTRANSKE	transketolase \(\text{tk}\) mRNA, :"	av dif pos
L12711_s_at	HUMTRANSKE	transketolase \(\text{tk}\) mRNA, :"	av dif pos
L19493_s_at	HUMFMR1R	FMR1 gene, 3'end.	av dif pos
L19527_at	HUMRPL27	ribosomal protein L27 \(\text{RPL27}\)	av dif pos
L19686_ma1_at	HUMMIF	macrophage migration inhibitor	av dif pos
L19686_ma1_at	HUMMIF	macrophage migration inhibitor	av dif pos
L19779_at	HUMH2A2A	histone H2A.2 mRNA, :H2A hist	av dif pos
L20688_at	HUMLYGDI	GDP-dissociation inhibitor pro	av dif pos
L20941_at	HUMFERRITH	ferritin heavy chain mRNA, :f	av dif pos
L21954_at	HSPBR4	peripheral benzodiazepine rece	av dif pos
L21954_at	HSPBR4	peripheral benzodiazepine rece	av dif pos
L26247_at	HUMSUIISO	sui1 iso1 mRNA,	av dif pos
L27943_at	HUMCYDE	cytidine deaminase \(\text{CDA}\) mRNA	av dif pos
L32866_at	HUMEPR1NP	effector cell protease recepto	av dif pos
L32976_at	HUMMLK3A	protein kinase \(\text{MLK-3}\) mRNA,	av dif pos
L33075_at	HUMIQGA	ras GTPase-activating-like pro	av dif pos
L33243_at	HUMPKD1A	polycystic kidney disease 1 pr	av dif pos
L33842_ma1_at	HUMIMPDH	\(\text{clone FFE-7}\) type II inosin	av dif pos
L33842_ma1_at	HUMIMPDH	\(\text{clone FFE-7}\) type II inosin	av dif pos
L33930_s_at	HUMCD24B	CD24 signal transducer mRNA, c	av dif pos
L37127_at	HUMRPIA	RNA polymerase II mRNA, :poly	av dif pos
L38490_s_at	HUMADPRF	ADP-ribosylation factor mRNA,	av dif pos
L38928_at	HUMMETSYN	5,10-methenyltetrahydrofolate	av dif pos
L38941_at	HUMRPL34A	ribosomal protein L34 \(\text{RPL34}\)	av dif pos
L39059_at	HUMTFSL1A	transcription factor SL1 mRNA,	av dif pos
L40357_at	HUMTRIP7M	thyroid receptor interactor \(\text{}	av dif pos
L40379_at	HUMTRIP10M	thyroid receptor interactor \(\text{}	av dif pos
L40387_at	HUMTRIP14G	thyroid receptor interactor \(\text{}	av dif pos
L40392_at	HUMORFB	\(\text{clone S164}\) mRNA, 3' end of	av dif pos
L40904_at	HUMPPARGB	H. sapiens peroxisome prolifer	av dif pos
L41870_at	HUMRB1MRNA	retinoblastoma susceptibility	av dif pos
L42176_at	HUMDRAL	\(\text{clone 35.3}\) DRAL mRNA, :(\	av dif pos
L42373_at	HUMPP2A	phosphatase 2A B56-alpha \(\text{PP2}	av dif pos
L42542_at	HUMRIP1R	RLIP76 protein mRNA, :RLIP76	av dif pos
L76159_at	HUMFRG1R	FRG1 mRNA, :FSHD region gene	av dif pos
L76465_at	HUMPGDHB	NAD+-dependent 15 hydroxyprost	av dif pos
L77886_at	HUMPTPC	protein tyrosine phosphatase m	av dif pos
M10612_at	HUMAPOCII	apolipoprotein C-II gene,	av dif pos
M11119_at	HUMERRNA	endogenous retrovirus envelope	av dif pos
M11147_at	HUMFERL	ferritin L chain mRNA, :ferri	av dif pos
M11313_s_at	HUMA2M	alpha-2-macroglobulin mRNA, :	av dif pos
M11353_at	HUMHISH3C	H3.3 histone class C mRNA,	av dif pos
M12529_at	HUMAPOE	apolipoprotein E mRNA, :apoli	av dif pos
M12529_at	HUMAPOE	apolipoprotein E mRNA, :apoli	av dif pos
M12886_at	HUMTCBYY	T-cell receptor active beta-ch	av dif pos
M12886_at	HUMTCBYY	T-cell receptor active beta-ch	av dif pos
M13207_at	HUMCSFGMA	granulocyte-macrophage colony-	av dif pos
M13560_s_at	HUMIAIG6	la-associated invariant gamma-	av dif pos
M13666_at	HUMCMYBB	c-myb mRNA, 3' end.	av dif pos
M13755_at	HUMIFN15K	interferon-induced 17-kDa/15-k	av dif pos
M13829_s_at	HUMPKS	putative raf related protein	av dif pos
M13829_s_at	HUMPKS	putative raf related protein	av dif pos

M13903_at	HUMINV2	involucrin gene, exon 2. :invo	av dif pos
M13929_s_at	HUMMYCPOA	c-myc-P64 mRNA, initiating fro	av dif pos
M13929_s_at	HUMMYCPOA	c-myc-P64 mRNA, initiating fro	av dif pos
M13934_cds2_at	HUMRPS14	ribosomal protein S14 gene, :	av dif pos
M13955_at	HUMKERMII	mesothelial keratin K7 \type	av dif pos
M14199_s_at	HUMLAMR	laminin receptor \2H5 epitope	av dif pos
M14199_s_at	HUMLAMR	laminin receptor \2H5 epitope	av dif pos
M14328_s_at	HUMENOA	alpha enolase mRNA, :enolase	av dif pos
M14483_ma1_s_at	HUMTHYMAA	prothymosin alpha mRNA,	av dif pos
M14676_at	HUMSLK	src-like kinase \silk\ mRNA,	av dif pos
M14676_at	HUMSLK	src-like kinase \silk\ mRNA,	av dif pos
M15395_at	HUMLAP	leukocyte adhesion protein \L	av dif pos
M15661_at	HUMRPZH21	ribosomal protein mRNA, :ribo	av dif pos
M15661_at	HUMRPZH21	ribosomal protein mRNA, :ribo	av dif pos
M16038_at	HUMLYN	lyn mRNA encoding a tyrosine k	av dif pos
M17733_at	HUMTHYB4	thymosin beta-4 mRNA, :thymos	av dif pos
M17863_s_at	HUMFFI2B	preproinsulin-like growth fact	av dif pos
M17863_s_at	HUMFFI2B	preproinsulin-like growth fact	av dif pos
M17885_at	HUMPPARP0	acidic ribosomal phosphoprotei	av dif pos
M17886_at	HUMPPARP1	acidic ribosomal phosphoprotei	av dif pos
M18000_at	HUMRPS17A	ribosomal protein S17 gene, :	av dif pos
M18737_ma1_at	HUMHFSP	Hanukah factor serine protease	av dif pos
M19045_f_at	HUMLSZH	lysozyme mRNA, :lysozyme ""m	av dif pos
M19159_at	HUMALPPD	placental heat-stable alkaline	av dif pos
M19159_at	HUMALPPD	placental heat-stable alkaline	av dif pos
M19301_at	HUMKAD	branched-chain alpha-keto acid	av dif pos
M19878_s_at	HUMCALB01	calbindin 27 gene, exons 1 and	av dif pos
M20902_at	HUMAPOCIA	apolipoprotein C-I \VLDL\ ge	av dif pos
M20902_at	HUMAPOCIA	apolipoprotein C-I \VLDL\ ge	av dif pos
M21142_cds2_s_at	HUMGNAS6	guanine nucleotide-binding pro	av dif pos
M21142_cds2_s_at	HUMGNAS6	guanine nucleotide-binding pro	av dif pos
M21186_at	HUMNCBLCA	neutrophil cytochrome b light	av dif pos
M21186_at	HUMNCBLCA	neutrophil cytochrome b light	av dif pos
M21302_at	HUMSPR2B	small proline rich protein \s	av dif pos
M21984_at	HUMTRT	\(clone PWHTnT16\) skeletal mu	av dif pos
M22490_at	HUMBMP2B	bone morphogenetic protein-2B	av dif pos
M22960_at	HUMPPR	protective protein mRNA, :pro	av dif pos
M23178_s_at	HUMG0S19A	homologue-1 of gene encoding a	av dif pos
M23613_at	HUMNPM	nucleophosmin mRNA, :nucleoph	av dif pos
M24194_at	HUMMHBA123	MHC protein homologous to chic	av dif pos
M24194_at	HUMMHBA123	MHC protein homologous to chic	av dif pos
M24485_s_at	HUMGSTP1G	\(clone pHGST-pi\) glutathione	av dif pos
M24486_s_at	HUMPYHBASA	prolyl 4-hydroxylase alpha sub	av dif pos
M25079_s_at	HUMBETGLA	sickle cell beta-globin mRNA,	av dif pos
M25079_s_at	HUMBETGLA	sickle cell beta-globin mRNA,	av dif pos
M25280_at	HUMLNHR	lymph node homing receptor mRN	av dif pos
M26311_s_at	HUMCFA	cystic fibrosis antigen mRNA,	av dif pos
M26311_s_at	HUMCFA	cystic fibrosis antigen mRNA,	av dif pos
M26665_s_at	HUMHIS2X	histatin 2 \HIS2\ mRNA, :hi	av dif pos
M26708_s_at	HUMPTAA	prothymosin alpha mRNA \ProT-	av dif pos
M26730_s_at	HUMQBPC6	mitochondrial ubiquinone-bindi	av dif pos
M27281_at	HUMVFP	vascular permeability factor m	av dif pos
M27749_r_at	HUMIGLR141	immunoglobulin-related 14.1 pr	av dif pos
M27749_r_at	HUMIGLR141	immunoglobulin-related 14.1 pr	av dif pos
M27826_at	HUMRTVLH3	endogenous retroviral protease	av dif pos

M27891_at	HUMCYS3A3	cystatin C (CST3) gene, exon	av dif pos
M28212_at	HUMRAB6A	GTP-binding protein (RAB6) m	av dif pos
M28882_s_at	HUMMUC18B	MUC18 glycoprotein mRNA, :mel	av dif pos
M28882_s_at	HUMMUC18B	MUC18 glycoprotein mRNA, :mel	av dif pos
M29335_at	HUMMHDOA	MHC class II DO-alpha mRNA,	av dif pos
M29335_at	HUMMHDOA	MHC class II DO-alpha mRNA,	av dif pos
M29610_s_at	HUMGLYE	glycophorin E mRNA, :glycopho	av dif pos
M30818_at	HUMMXB	interferon-induced cellular re.	av dif pos
M30938_at	HUMKUP	Ku (p70/p80) subunit mRNA,	av dif pos
M31303_ma1_at	HUMOP18A	oncoprotein 18 (Op18) gene,	av dif pos
M31303_ma1_at	HUMOP18A	oncoprotein 18 (Op18) gene,	av dif pos
M31520_at	HUMRPS24A	ribosomal protein S24 mRNA.	av dif pos
M31520_ma1_s_at	HUMRPS24A	ribosomal protein S24 mRNA. :r	av dif pos
M31627_at	HUMHXB1	X box binding protein-1 (XBP-	av dif pos
M31994_at	HUMALDC13	aldehyde dehydrogenase (ALDH1	av dif pos
M32053_at	HUMH19	H19 RNA gene,	av dif pos
M32304_s_at	HUMMET	metalloproteinase inhibitor mR	av dif pos
M32405_at	HUMRIGA	homologue of rat insulinoma ge	av dif pos
M32886_at	HUMSRICPA	sorcin CP-22 mRNA, :sorcin :s	av dif pos
M33600_f_at	HUMMHDR1C	MHC class II HLA-DR-beta-1 (H	av dif pos
M33680_at	HUMTAPA1	26-kDa cell surface protein TA	av dif pos
M33684_s_at	HUMPPPB1A5	(clone lambda-16-1) non-rece	av dif pos
M34041_at	HUMADRA2RA	alpha-2-adrenergic receptor (av dif pos
M34182_at	HUMPRKACG	testis-specific protein kinase	av dif pos
M34516_at	HUMIGL122	omega light chain protein 14.1	av dif pos
M34516_r_at	HUMIGL122	omega light chain protein 14.1	av dif pos
M34516_r_at	HUMIGL122	omega light chain protein 14.1	av dif pos
M34715_at	HUMPSBGAA	pregnancy-specific beta-1-glyc	av dif pos
M34996_s_at	HUMDQA1A	MHC cell surface glycoprotein	av dif pos
M34996_s_at	HUMDQA1A	MHC cell surface glycoprotein	av dif pos
M35198_at	HUMINTB6A	integrin B-6 mRNA, :integrin,	av dif pos
M35252_at	HUMCOOTAA	CO-029. :transmembrane 4 super	av dif pos
M35878_at	HUMIBP3	insulin-like growth factor-bin	av dif pos
M36072_at	HUMRPL7A	ribosomal protein L7a (surf 3	av dif pos
M37238_s_at	HUMPLC	phospholipase C mRNA, :phosph	av dif pos
M37245_at	HUMIGCTL3	Ig superfamily cytotoxic T-lym	av dif pos
M37245_at	HUMIGCTL3	Ig superfamily cytotoxic T-lym	av dif pos
M37435_at	HUMCSDF1	macrophage-specific colony-sti	av dif pos
M37583_at	HUMHIS2AZ	histone (H2A.Z) mRNA, :hist	av dif pos
M37815_cds1_at	HUMCD284	T-cell membrane glycoprotein C	av dif pos
M38449_s_at	HUMTGFB	transforming growth factor-bet	av dif pos
M38690_at	HUMANTCD9	CD9 antigen mRNA, :CD9 antige	av dif pos
M38890_at	HUMANTCD9	CD9 antigen mRNA, :CD9 antige	av dif pos
M54995_at	HUMCTAP3	connective tissue activation p	av dif pos
M55409_s_at	HUMPANCAN	pancreatic tumor-related prote	av dif pos
M55409_s_at	HUMPANCAN	pancreatic tumor-related prote	av dif pos
M57293_at	HUMPTHSPA	parathyroid hormone-related pe	av dif pos
M57399_at	HUMHBNF1	nerve growth factor (HBNF-1)	av dif pos
M57399_at	HUMHBNF1	nerve growth factor (HBNF-1)	av dif pos
M57466_s_at	HUMMHDP	MHC class II HLA-DP light chai	av dif pos
M57466_s_at	HUMMHDP	MHC class II HLA-DP light chai	av dif pos
M57710_at	HUMBPIGE	IgE-binding protein (epsilon-	av dif pos
M58378_cds1_at	HUMSYN1E13	synapsin I (SYN1) gene, exon	av dif pos
M58525_s_at	HUMCOMTC	catechol-O-methyltransferase	av dif pos
M58525_s_at	HUMCOMTC	catechol-O-methyltransferase	av dif pos

M59216_s_at	UMGABRB1S5	gamma-aminobutyric acid-A \GA	av dif pos
M59371_at	HUMECK	protein tyrosine kinase mRNA,	av dif pos
M59807_at	HUMNK4	NK4 mRNA, :natural killer cel	av dif pos
M59830_at	HUMMHSP2	MHC class III HSP70-2 gene \H	av dif pos
M59911_at	HUMINTA3A	integrin alpha-3 chain mRNA,	av dif pos
M60483_ma1_s_at	HUMPP2AA	protein phosphatase 2A catalyt	av dif pos
M60854_at	HUMSRAA	ribosomal protein S18 mRNA, :	av dif pos
M61916_at	HUMLAM101	laminin B1 chain mRNA, :lamin	av dif pos
M62403_s_at	HUMIGFBP5	insulin-like growth factor bin	av dif pos
M62403_s_at	HUMIGFBP5	insulin-like growth factor bin	av dif pos
M62486_at	UMPRPC4S12	C4b-binding protein gene, exon	av dif pos
M63258_at	HUMCDR2AA	major Yo paraneoplastic antige	av dif pos
M63379_at	HUMTRPM2A4	TRPM-2 protein gene, exons 7,8	av dif pos
M63438_s_at	HUMIGGK	Ig rearranged gamma chain mRNA	av dif pos
M63438_s_at	HUMIGGK	Ig rearranged gamma chain mRNA	av dif pos
M63573_at	HUMSCYLP	secreted cyclophilin-like prot	av dif pos
M63589_at	HUMSCL7	stem cell leukemia gene produc	log neg
M64347_at	HUMFGFLR	novel growth factor receptor m	log neg
M64347_at	HUMFGFLR	novel growth factor receptor m	log neg
M64673_at	HUMHSF1	heat shock factor 1 \TCF5\ m	log neg
M64716_at	HUMRPS25	ribosomal protein S25 mRNA, :	log neg
M64992_at	HUMPROS30	prosome protein P30-33K \pro	log neg
M65292_s_at	HUMHAAA	factor H homologue mRNA, :fa	log neg
M65292_s_at	HUMHAAA	factor H homologue mRNA, :fa	log neg
M69023_at	HUMGGEFERA	globin gene.	log neg
M69066_at	HUMMOESIN	moesin mRNA, :moesin :moesin	log neg
M69238_at	HUMARNTA	aryl hydrocarbon receptor nucl	log neg
M73077_at	HUMGRF1A	glucocorticoid receptor repres	log neg
M73239_s_at	HUMSCFA1	\clone SF1\ hepatocyte growt	log neg
M73547_at	HUMPOLLA	polyposis locus \DP1 gene\ m	log neg
M74093_at	HUMCLNC	cyclin mRNA, :cyclin E1	log neg
M74297_at	HUMHOX14	homeobox 1.4 protein mRNA, :h	log neg
M74715_s_at	HUMIDNAL	alpha-L-iduronidas \IDUA\ mR	log neg
M77232_ma1_at	HUMRPS6B	ribosomal protein S6 gene, com	log neg
M77836_at	HUMP5CR	pyrroline 5-carboxylate reduct	log neg
M80244_at	HUME16GEN	E16 mRNA,	log neg
M80254_at	HUMCYP	cyclophilin isoform \hCyP3\	log neg
M80359_at	HUMP78A	protein p78 mRNA, :MAP/microt	log neg
M80563_at	HUMCAPL	CAPL protein mRNA, :S100 calc	log neg
M80563_at	HUMCAPL	CAPL protein mRNA, :S100 calc	log neg
M80899_at	HUMAHNAKA	novel protein AHNAK mRNA, part	log neg
M81750_at	HUMMCNDA	myeloid cell nuclear different	log neg
M81757_at	HUMS19RP	S19 ribosomal protein mRNA,	log neg
M81883_at	HUMGAD67A	glutamate decarboxylase \GAD6	log neg
M83181_at	HUMHTRB	serotonin receptor gene, :5-h	log neg
M84424_at	HUMCTSE09	cathepsin E \CTSE\ gene, exo	log neg
M84711_at	HUMFTE1A	v-fos transformation effector	log neg
M85289_at	HUMHSPG2B	heparan sulfate proteoglycan	log neg
M86400_at	HUMPHPLA2	phospholipase A2 mRNA, :tyros	log neg
M86699_at	HUMTTK	kinase \TTK\ mRNA, :TTK pro	log neg
M86737_at	HUMHMGBP	high mobility group box \SSRP	log neg
M87789_s_at	HUMIGHEPAH	\hybridoma H210\ anti-hepati	log neg
M87789_s_at	HUMIGHEPAH	\hybridoma H210\ anti-hepati	log neg
M90356_f_at	HUMBTDF	BTF3 protein homologue gene,	log neg
M90656_at	HUMGCSH	gamma-glutamylcysteine synthet	log neg

M91670_at	HUME2EPI	ubiquitin carrier protein \E2	log neg
M94856_at	HUMFABPHA	fatty acid binding protein hom	log neg
M94856_at	HUMFABPHA	fatty acid binding protein hom	log neg
M94880_f_at	HUMHLAAX	MHC class I \HLA-A*8001\ mRNA	log neg
M96233_s_at	HUMGSTM4A	glutathione transferase class	log neg
M96233_s_at	HUMGSTM4A	glutathione transferase class	log neg
M96326_ma1_at	HUMAZCDI	azurocidin gene,	log neg
M96956_at	HUMTDGF3A	\(clone CR-3\) teratocarcinoma	log neg
M97796_s_at	HUMID2X	helix-loop-helix protein \Id-	log neg
M97815_at	HUMCRABP02	retinoic acid-binding protein	log neg
S34389_at	HMOX2	heme oxygenase-2 [human, kidney]	log neg
S58544_at	SPAG1	75 kDa infertility-related spe	log neg
S69115_at	S69115	granulocyte colony-stimulating	log neg
S69115_at	S69115	granulocyte colony-stimulating	log neg
S71043_ma1_s_at	S71043	Ig alpha 2=immunoglobulin A he	log neg
S71043_ma1_s_at	S71043	Ig alpha 2=immunoglobulin A he	log neg
S73591_at	VDUP1	brain-expressed HHCPA78 homolo	log neg
S73591_at	VDUP1	brain-expressed HHCPA78 homolo	log neg
S75463_at	S75463	P43=mitochondrial elongation f	log neg
S77356_at	S77356	transcript ch21=oligomycin sen	log neg
S77582_at	S77582	HERVK10/HUMMTV reverse transcr	log neg
S78234_at	S78234	nuc2 homolog [human, fibroblas	log neg
S78771_s_at	S78771	NAT=CpG island-associated gene	log neg
S79219_s_at	S79219	metastasis-associated gene [hu	log neg
S79522_at	S79522	ubiquitin carboxyl extension p	log neg
S80562_at	CNN3	acidic calponin [human, kidney	log neg
S82297_at	S82297	beta 2-microglobulin {11bp del	log neg
S82597_ma1_s_at	S82597	UDP-GalNAc:polypeptide	log neg
S90469_at	POR	cytochrome P450 reductase [hum	log neg
U00947_s_at	U00947	clone C4E 3.2 \CAC)n^(GTG\)	log neg
U03397_s_at	U03397	receptor protein 4-1BB mRNA,	log neg
U03398_at	TNFSF9	receptor 4-1BB ligand mRNA, :	log neg
U04241_at	U04241	homolog of Drosophila enhancer	log neg
U04313_at	PI5	maspin mRNA, :protease inhibi	log neg
U05340_at	CDC20	p55CDC mRNA, :cell division c	log neg
U06155_s_at	U06155	chromosome 1q subtelomeric seq	log neg
U06863_at	U06863	folliculin-related protein pr	log neg
U06863_at	U06863	folliculin-related protein pr	log neg
U09117_at	PLCD1	phospholipase C delta 1 mRNA,	log neg
U09303_at	EFNB1	T cell leukemia LERK-2 \EPLG2	log neg
U09813_at	ATP5G3	mitochondrial ATP synthase sub	log neg
U09953_at	U09953	ribosomal protein L9 mRNA, :r	log neg
U10362_at	U10362	GP36b glycoprotein mRNA,	log neg
U10492_at	HSMOX1	Mox1 protein \MOX1\ mRNA, :	log neg
U12404_at	U12404	Csa-19 mRNA,	log neg
U12404_at	U12404	Csa-19 mRNA,	log neg
U12465_at	U12465	ribosomal protein L35 mRNA,	log neg
U12779_at	U12779	MAP kinase activated protein k	log neg
U14391_at	MYO1C	myosin-IC mRNA, :myosin IC	log neg
U14588_at	PXN	paxillin mRNA, :paxillin :pax	log neg
U14968_at	U14968	ribosomal protein L27a mRNA,	log neg
U14969_at	U14969	ribosomal protein L28 mRNA, :	log neg
U14970_at	U14970	ribosomal protein S5 mRNA, :r	log neg
U14971_at	U14971	ribosomal protein S9 mRNA, :r	log neg
U14971_at	U14971	ribosomal protein S9 mRNA, :r	log neg

U14972_at	U14972	ribosomal protein S10 mRNA,	log neg
U14973_at	U14973	ribosomal protein S29 mRNA, :	log neg
U15177_at	U15177	cosmid CRI-JC2015 at D10S289 i	log neg
U16660_at	ECH1	peroxisomal enoyl-CoA hydratase	log neg
U16799_s_at	U16799	Na,K-ATPase beta-1 subunit mRNA	log neg
U16881_at	KCNJ2	inward rectifying potassium ch	log neg
U17077_at	BENE	BENE mRNA, :BENE protein	log neg
U17760_ma1_at	HSLAMB3S17	laminin S B3 chain \LAMB3\ g	log neg
U19247_ma1_s_at	HSINFGRA7	interferon-gamma receptor alph	log neg
U19251_s_at	NAIP	neuronal apoptosis inhibitory	log neg
U20657_at	USP4	ubiquitin protease \Unph\ pr	log neg
U20734_s_at	U20734	transcription factor junB \ju	log neg
U20734_s_at	U20734	transcription factor junB \ju	log neg
U20758_ma1_at	U20758	osteopontin gene,	log neg
U22376_cds2_s_at	MYB	\(c-myb\ gene, complete prima	log neg
U22431_s_at	U22431	hypoxia-inducible factor 1 alp	log neg
U22970_ma1_s_at	U22970	interferon-inducible peptide	log neg
U22970_ma1_s_at	U22970	interferon-inducible peptide	log neg
U24183_s_at	U24183	phosphofructokinase \PFKM\ m	log neg
U24389_s_at	HSLYOXL7	lysyl oxidase-like protein gen	log neg
U25789_at	U25789	ribosomal protein L21 mRNA, :	log neg
U27333_at	U27333	alpha \1,3\ fucosyltransferase	log neg
U27333_at	U27333	alpha \1,3\ fucosyltransferase	log neg
U27831_at	U27831	striatum-enriched phosphatase	log neg
U29175_at	U29175	transcriptional activator \BR	log neg
U29953_ma1_at	PEDF	pigment epithelium-derived fac	log neg
U30827_s_at	U30827	splicing factor SRp40-3 \SRp4	log neg
U30888_at	USP14	tRNA-guanine transglycosylase	log neg
U30888_at	USP14	tRNA-guanine transglycosylase	log neg
U31814_at	HDAC2	transcriptional regulator homo	log neg
U31875_at	HEP27	Hep27 protein mRNA, :short-ch	log neg
U32944_at	PIN	cytoplasmic dynein light chain	log neg
U34880_at	U34880	DPH2L mRNA, :DPH2L "mRNA," co	log neg
U36341_ma1_at	U36341	Xq28 cosmid, creatine transpor	log neg
U36764_at	U36764	TGF-beta receptor interacting	log neg
U37012_at	U37012	cleavage and polyadenylation s	log neg
U37146_at	U37146	silencing mediator of retinoid	log neg
U37408_at	CTBP1	phosphoprotein CtBP mRNA, :C-	log neg
U37689_at	POLR2H	RNA polymerase II subunit \hs	log neg
U38276_at	SEMA3F	semaphorin III family homolog	log neg
U38276_at	SEMA3F	semaphorin III family homolog	log neg
U39400_at	C11orf4	NOF1 mRNA, :chromosome 11 op	log neg
U40998_at	U40998	retinal protein \HRG4\ mRNA,	log neg
U41060_at	U41060	breast cancer, estrogen regula	log neg
U41766_s_at	ADAM9	metalloprotease/disintegrin/cy	log neg
U42359_at	HUMN33S10	N33 protein form 1 \N33\ gen	log neg
U43328_at	U43328	link protein mRNA,	log neg
U43901_ma1_s_at	U43901	37 kD laminin receptor precurs	log neg
U43901_ma1_s_at	U43901	37 kD laminin receptor precurs	log neg
U45448_s_at	U45448	P2x1 receptor mRNA,	log neg
U48705_ma1_s_at	U48705	receptor tyrosine kinase DDR g	log neg
U48936_at	U48936	amiloride-sensitive epithelial	log neg
U48936_at	U48936	amiloride-sensitive epithelial	log neg
U49395_at	U49395	ionotropic ATP receptor P2X5a	log neg
U49869_ma1_at	UBB	ubiquitin gene, :ubiquitin B	log neg

U50523_at	U50523	BRCA2 region, mRNA sequence CG	log neg
U50929_at	BHMT	betaine:homocysteine methyltra	log neg
U52154_at	KCNJ5	G protein-coupled inwardly rec	log neg
U52154_at	KCNJ5	G protein-coupled inwardly rec	log neg
U52696_s_at	U52696	adrenal Creb-rp homolog \(\Creb	log neg
U53786_at	U53786	envoplakin \(\EVPL\) mRNA, :en	log neg
U55054_at	HSKCC	K-Cl cotransporter \(\hKCC1\) m	log neg
U55054_at	HSKCC	K-Cl cotransporter \(\hKCC1\) m	log neg
U57341_r_at	U57341	neurofilament triplet L protei	log neg
U57342_at	MLF2	myelodysplasia/myeloid leukemi	log neg
U57629_at	RPGR	retinitis pigmentosa GTPase re	log neg
U58682_at	U58682	ribosomal protein S28 mRNA, :	log neg
U60975_at	U60975	hybrid receptor gp250 precurs	log neg
U60975_at	U60975	hybrid receptor gp250 precurs	log neg
U62739_at	BCAT2	branched-chain amino acid amin	log neg
U62962_at	EIF3S6	Int-6 mRNA, :eukaryotic trans	log neg
U63541_at	U63541	mRNA expressed in HC/HCC liver	log neg
U64863_at	PDCD1	hPD-1 \(\hPD-1\) mRNA, :progra	log neg
U66061_cds3_at	U66061	germline T-cell receptor beta	log neg
U66406_at	EFNB3	putative EPH-related PTK recep	log neg
U66616_at	SMARCC2	SWI/SNF complex 170 KDa subuni	log neg
U66616_at	SMARCC2	SWI/SNF complex 170 KDa subuni	log neg
U67092_s_at	U67092	ataxia-telangiectasia locus pr	log neg
U67156_at	MEKK5	mitogen-activated kinase kinas	log neg
U68105_s_at	HSPABPS13	poly(A)-binding protein \(\PA	log neg
U70732_ma1_at	GPT	glutamate pyruvate transaminas	log neg
U70867_at	SLC21A2	prostaglandin transporter hPGT	log neg
U73379_at	U73379	cyclin-selective ubiquitin car	log neg
U73379_at	U73379	cyclin-selective ubiquitin car	log neg
U73824_at	EIF4G2	p97 mRNA, :eukaryotic transla	log neg
U73843_at	U73843	epithelial-specific transcript	log neg
U77456_at	NAP1L4	nucleosome assembly protein 2	log neg
U77846_ma1_at	U77846	elastin gene, partial cds and	log neg
U77846_ma1_s_at	U77846	elastin gene, partial cds and	log neg
U77846_ma1_s_at	U77846	elastin gene, partial cds and	log neg
U78027_ma3_at	U78027	Bruton's tyrosine kinase \(\BTK	log neg
U78095_at	U78095	placental bikunin mRNA, :Plac	log neg
U78678_at	U78678	thioredoxin mRNA, nuclear gene	log neg
U78722_at	U78722	zinc finger protein 165 \(\Zpf1	log neg
U78735_at	U78735	ABC3 mRNA,	log neg
U79256_at	U79256	clone 23719 mRNA sequence,	log neg
U79280_at	U79280	clone 23575 mRNA,	log neg
U79299_at	U79299	neuronal olfactomedin-related	log neg
U80184_ma1_at	FLII	FLII gene, :flightless I \(\Dr	log neg
U81984_at	EPAS1	endothelial PAS domain protein	log neg
U82169_at	FZD9	frizzled homolog \(\FZD3\) mRNA	log neg
U82169_at	FZD9	frizzled homolog \(\FZD3\) mRNA	log neg
U82818_at	U82818	UCP3S mRNA,	log neg
U83246_at	CPNE1	copine I mRNA, :copine I :cop	log neg
U83598_at	U83598	death domain receptor 3 solubl	log neg
U86136_at	U86136	telomerase-associated protein	log neg
U87972_at	U87972	NAD+-isocitrate dehydrogenase	log pos
U88964_at	ISG20	HEM45 mRNA, :interferon stimu	log pos
U89326_at	U89326	bone morphogenetic protein rec	log pos
U90426_at	DDXL	nuclear RNA helicase, :nuclea	log pos

U90552_s_at	U90552	butyrophilin (BTF5) mRNA, :	log pos
U90913_at	U90913	clone 23665 mRNA sequence. :cl	log pos
U90916_at	U90916	clone 23815 mRNA sequence. :cl	log pos
U94747_at	HAN11	WD repeat protein HAN11 mRNA,	log pos
U95740_ma1_at	U95740	Chromosome 16 BAC clone CIT987	log pos
V00571_ma1_at	HSPCRF	gene encoding prepro form of c	log pos
V00572_at	HSPGK1	mRNA encoding phosphoglycerate	log pos
V00594_s_at	HSTHIO	metallothionein from cadmium-	log pos
V01512_ma1_at	HSCFOS	cellular oncogene c-fos (comp	log pos
X00274_at	HSHL07	gene for HLA-DR alpha heavy ch	log pos
X00274_at	HSHL07	gene for HLA-DR alpha heavy ch	log pos
X00351_f_at	HSAC07	beta-actin.	log pos
X00368_xpl2_at	HSPROL1	prolactin gene 5' region.	log pos
X01677_f_at	HSGAPDR	liver glyceraldehyde-3-phosph	log pos
X02152_at	HSLDHAR	lactate dehydrogenase-A (LDH	log pos
X02596_at	HSBCRR	bcr (breakpoint cluster regi	log pos
X03068_f_at	HSHLDQWB	HLA-D class II antigen DQw1.1	log pos
X03100_cds2_at	HSHLASBA	HLA-SB(DP) alpha gene. :HLA-	log pos
X03100_cds2_at	HSHLASBA	HLA-SB(DP) alpha gene. :HLA-	log pos
X03342_at	HSRPL32	ribosomal protein L32. :ribos	log pos
X03689_s_at	HSEFTUR5	mRNA fragment for elongation f	log pos
X03689_s_at	HSEFTUR5	mRNA fragment for elongation f	log pos
X04347_s_at	HSUPIR1	liver mRNA fragment DNA bindin	log pos
X04347_s_at	HSUPIR1	liver mRNA fragment DNA bindin	log pos
X06614_at	HSRRA	receptor of retinoic acid. :r	log pos
X06617_at	HSRPS11	ribosomal protein S11. :ribo	log pos
X06985_at	HSOXYGR	heme oxygenase. :heme oxygena	log pos
X06985_at	HSOXYGR	heme oxygenase. :heme oxygena	log pos
X07696_at	HSKERC15	cytokeratin 15. :keratin 15 :	log pos
X07730_at	HSPSA	prostate specific antigen. :	log pos
X07730_at	HSPSA	prostate specific antigen. :	log pos
X12447_at	HSALDOA	aldolase A gene (EC 4.1.2.13	log pos
X12671_ma1_at	HSHNRNPA	gene for heterogeneous nuclear	log pos
X12671_ma1_at	HSHNRNPA	gene for heterogeneous nuclear	log pos
X12876_s_at	HSKER18A	mRNA fragment for cytokeratin	log pos
X12876_s_at	HSKER18A	mRNA fragment for cytokeratin	log pos
X13334_at	HSCD14R	CD14 myelid cell-specific leu	log pos
X13546_ma1_at	HSHMG17G	HMG-17 gene for non-histone ch	log pos
X13794_ma1_at	HSLDHB1	lactate dehydrogenase B gene e	log pos
X13794_ma1_at	HSLDHB1	lactate dehydrogenase B gene e	log pos
X14008_ma1_f_at	HSLYSOZY	lysozyme gene (EC 3.2.1.17).	log pos
X15940_at	HSRPL31	ribosomal protein L31. :ribos	log pos
X16064_at	HSTUMP	translationally controlled tu	log pos
X16832_at	HSCATHH	cathepsin H (EC 3.4.22.16).	log pos
X17042_at	HSHPCP	hematopoietic proteoglycan cor	log pos
X17206_at	HSLREP3	LLRep3. : LLRep3	log pos
X51345_at	HSJUNB	jun-B JUN-B protein. :jun B p	log pos
X51466_at	HSEF2	elongation factor 2. : elonga	log pos
X51688_at	HSCYCLINA	cyclin A.	log pos
X52003_at	HSPS2MKN	pS2 protein gene. :trefoil fac	log pos
X52003_at	HSPS2MKN	pS2 protein gene. :trefoil fac	log pos
X52426_s_at	HSCYTK	cytokeratin 13. : cytokeratin	log pos
X52426_s_at	HSCYTK	cytokeratin 13. : cytokeratin	log pos
X52851_ma1_at	HSCPH70	cyclophilin gene for cyclophil	log pos
X52966_at	HSL35A	ribosomal protein L35a. :ribo	log pos

X53586_ma1_at	HSINTA6R	integrin alpha 6. :integrin,	log pos
X53587_at	HSINTB4R	integrin beta 4. : integrin b	log pos
X53777_at	HSL23MR	L23 putative ribosomal protei	log pos
X54232_at	HSGLYPIC	heparan sulfate proteoglycan	log pos
X54887_at	HSCYSTATS	cystatin S.	log pos
X54942_at	HSCKSHS2	ckshs2 Cks1 protein homologue	log pos
X54942_at	HSCKSHS2	ckshs2 Cks1 protein homologue	log pos
X55005_ma1_at	HSCERBAR	c-erbA-1 thyroid hormone rece	log pos
X55715_at	HSUMS3	Hums3 40S ribosomal protein s	log pos
X55954_at	HSL17ARP	HL23 ribosomal protein homolo	log pos
X56494_at	HSPKM12	M gene for M1-type and M2-type	log pos
X56887_s_at	HSAUTNOR	autoantigen NOR-90.	log pos
X56807_at	HSDGII	DSC2 desmocollins type 2a and	log pos
X56841_at	HSHLAE	HLA-E gene. :major histocompat	log pos
X56932_at	HS23KDHBP	23 kD highly basic protein.	log pos
X57351_at	HS18D	1-8D gene from interferon-indu	log pos
X57351_at	HS18D	1-8D gene from interferon-indu	log pos
X57351_s_at	HS18D	1-8D gene from interferon-indu.	log pos
X57809_s_at	HSIGVL009	rearranged immunoglobulin lamb	log pos
X57809_s_at	HSIGVL009	rearranged immunoglobulin lamb	log pos
X57959_at	HSRBPRL7A	ribosomal protein L7. :riboso	log pos
X58072_at	HSGATA3R	hGATA3 trans-acting T-cell sp	log pos
X59373_at	HSOX4D	HOX4D a homeobox protein. :ho	log pos
X59798_at	HSPRAD1CY	PRAD1 cyclin. :PRAD1 cyclin	log pos
X60489_at	HSEF1B	elongation factor-1-beta.	log pos
X61587_at	HSRHOG	rhoG GTPase. :ras homolog gen	log pos
X62320_at	HSEPIT1	epithelin 1 and 2. : epitheli	log pos
X62466_at	HSCAMPAT1	CAMPATH-1 \ (CDw52\) antigen.	log pos
X62466_at	HSCAMPAT1	CAMPATH-1 \ (CDw52\) antigen.	log pos
X62654_ma1_at	HSMECDAG	gene for Me491/CD63 antigen. :	log pos
X62691_at	HSRPRNA	ribosomal protein \ (homologuo	log pos
X63359_at	HSUGT2BIO	UGT2BIO udp glucuronosyltrans	log pos
X63527_at	HSRPL19	ribosomal protein L19. :ribos	log pos
X63629_at	HSPCAD	p cadherin. :cadherin 3, P-ca	log pos
X64229_at	HSDEK9	dek mRNA. :DEK gene	log pos
X64707_at	HSBBC1	BBC1 mRNA.	log pos
X65614_at	HSS100PCB	calcium-binding protein S100P	log pos
X66114_ma1_at	HS2OXOC	gene for 2-oxoglutarate carrie	log pos
X66363_at	HSSTHPKD	mRNA PCTAIRE-1 for serine/thre	log pos
X66363_at	HSSTHPKD	mRNA PCTAIRE-1 for serine/thre	log pos
X66899_at	HSEWS	EWS mRNA. :Ewing sarcoma break	log pos
X67247_ma1_at	HSRPS8	rpS8 gene for ribosomal protei	log pos
X67325_at	HSP27	p27 mRNA. :interferon, alpha-i	log pos
X67951_at	HSPAG	proliferation-associated gene	log pos
X68314_at	HSGPGI	glutathione peroxidase-GI. :g	log pos
X68314_at	HSGPGI	glutathione peroxidase-GI. :g	log pos
X68688_ma1_s_at	HSZNB	ZNF33B gene.	log pos
X69150_at	HSRPS18	ribosomal protein S18. :ribos	log pos
X69391_at	HSRPL6AA	ribosomal protein L6. :riboso	log pos
X69550_at	HSRHO1	rho GDP-dissociation Inhibito	log pos
X69654_at	HSS26	ribosomal protein S26.	log pos
X70940_s_at	HSEFAC1A2	elongation factor 1 alpha-2.	log pos
X70940_s_at	HSEFAC1A2	elongation factor 1 alpha-2.	log pos
X73079_at	HSPIR	encoding Polymeric immunoglobu	log pos
X73358_s_at	HSAES1	hAES-1 mRNA. :amino-terminal e	log pos

X73460_at	HSRPL3A	ribosomal protein L3.	log pos
X73478_at	HSPTPAA	hPTPA mRNA. :hPTPA mRNA	log pos
X74819_at	HSCARTROT	cardiac troponin T.	log pos
X74819_at	HSCARTROT	cardiac troponin T.	log pos
X74929_s_at	HSKRT8	KRT8 keratin 8. :keratin 8 :K	log pos
X75252_at	HSPEABP	phosphatidylethanolamine bindi	log pos
X76534_at	HSNMB	NMB mRNA. :transmembrane glyco	log pos
X76534_at	HSNMB	NMB mRNA. :transmembrane glyco	log pos
X77794_at	HSCYCG1	cyclin G1. : cyclin G1	log pos
X78992_at	HSERF2	ERF-2 mRNA.	log pos
X79234_at	HSRPL11	ribosomal protein L11.	log pos
X79439_at	HSNOTCH3	Notch 3 DNA sequence. :Notch	log pos
X80082_at	HSSAMRNA	SA mRNA.	log pos
X80198_at	HSMLN64	MLN64 mRNA.	log pos
X80200_at	HSMLN62	MLN62 mRNA. :TNF receptor-asso	log pos
X80822_at	HSPLORF	ORF.	log pos
X80909_at	HSANAC	alpha NAC mRNA. :nascent-polyp	log pos
X82693_at	HSE48	E48 antigen. : E48 antigen	log pos
X82693_at	HSE48	E48 antigen. : E48 antigen	log pos
X83416_s_at	HSPRP2	PrP gene, exon 2. : "PrP "gene	log pos
X83492_at	HSFAS47	Fas/Apo-1 \clone pCRTM11-Fas	log pos
X83492_at	HSFAS47	Fas/Apo-1 \clone pCRTM11-Fas	log pos
X83572_at	HSARSD	ARSD gene, complete CDS. :aryl	log pos
X86809_at	HSPEA15	major astrocytic phosphoprote	log pos
X87159_at	HSSCNN1B	beta subunit of epithelial am	log pos
X87241_at	HSHFATPRO	hFat protein. :FAT tumor supp	log pos
X89416_at	HSRNAPPP5	protein phosphatase 5. :prote	log pos
X89416_at	HSRNAPPP5	protein phosphatase 5. :prote	log pos
X90846_at	HARNAMLK2	mixed lineage kinase 2.	log pos
X91103_at	HSRNAHR44	Hr44 protein.	log pos
X93036_at	HSMAT82	MAT8 protein. :phospholemma-	log pos
X94583_xpt2_r_at	HSDBIEX12	dbi/acbp gene exon 1 & 2.	log pos
X94612_at	HS2CGMPPK	type II cGMP-dependent protei	log pos
X95404_at	HSNMCFL1	non-muscle type cofilin. :cof	log pos
X95735_at	HSZYXIN2R	zyxin. :zyxin	log pos
X95808_s_at	HSDXS	protein encoded by a candidat	log pos
X98482_at	HSTNNTX11	TNNT2 gene exon 11.	log pos
X98482_r_at	HSTNNTX11	TNNT2 gene exon 11.	log pos
X98482_r_at	HSTNNTX11	TNNT2 gene exon 11.	log pos
X98534_s_at	HSVASP413	VASP gene, exons 4 to 13. : "VA	log pos
X99133_at	HSNGALGEN	NGAL gene. :lipocalin 2 \onco	log pos
X99688_at	HSTYL	mRNA from TYL gene. :pleckstri	log pos
Y00082_at	HSLCA	T200 leukocyte common antigen	log pos
Y00503_at	HSKER19	keratin 19. :keratin 19 : ker	log pos
Y00705_at	HSPSTI	pstI pancreatic secretory inh	log pos
Y00787_s_at	HSMDNCF	MDNCF \monocyte-derived neut	log pos
Y00787_s_at	HSMDNCF	MDNCF \monocyte-derived neut	log pos
Y00796_at	HSFLA1A	leukocyte-associated molecule	log pos
Y07755_at	HSS100A2	S100A2 gene, exon 1, 2 and 3.	log pos
Y07755_at	HSS100A2	S100A2 gene, exon 1, 2 and 3.	log pos
Y08374_ma1_at	Y08374	gene encoding cartilage GP-39	log pos
Y08639_at	HSTFAC	nuclear orphan receptor ROR-b	log pos
Y08976_at	HSRNAFEV	FEV protein.	log pos
Y10207_at	HSCD171	CD171 protein.	log pos
Y10871_at	HSTWISTGE	twist gene. :twist \Drosophil	log pos

Y12670_at	HSOBRGRP	leptin receptor gene-related	log pos
Z12962_at	HSRPL41	homologue to yeast ribosomal	log pos
Z19554_s_at	HSVIMENTA	vimentin gene. :vimentin gene	log pos
Z19574_ma1_at	HSCYTOK17	gene for cytokeratin 17. :gene	log pos
Z22551_at	HSKINEC	kinectin gene.	log pos
Z25749_ma1_at	HSRPS7	gene for ribosomal protein S7.	log pos
Z25884_at	HSCLC1MR	CIC-1 muscle chloride channel	log pos
Z25884_at	HSCLC1MR	CIC-1 muscle chloride channel	log pos
Z26491_s_at	HSCOMT2	gene for catechol O-methyltran	log pos
Z28407_at	HSRBPL8	ribosomal protein L8. :riboso	log pos
Z28407_at	HSRBPL8	ribosomal protein L8. :riboso	log pos
Z30843_at	HSCLCHPRA	chloride channel \ (putative)	log pos
Z32765_at	HSCD36G15	CD36 gene exon 15.	log pos
Z35402_ma1_s_at	HSECAD3	gene encoding E-cadherin, exon	log pos
Z35402_ma1_s_at	HSECAD3	gene encoding E-cadherin, exon	log pos
Z48501_s_at	HSPABPII	polyadenylate binding protein	log pos
Z48950_at	HSHH3X3B	hH3.3B gene for histone H3.3.	log pos
Z49107_s_at	Z49107	galectin.	log pos
Z49148_s_at	HSRPL29	ribosomal protein L29.	log pos
Z49148_s_at	HSRPL29	ribosomal protein L29.	log pos
Z49835_s_at	HSP2SISOM	protein disulfide isomerase.	log pos
Z50022_at	HSSGP1N15	surface glycoprotein. :chromo	log pos
Z69043_s_at	HSTRAPRNA	mRNA translocon-associated pro	log pos
Z70759_at	HSM243	mitochondrial 16S rRNA gene \ (log pos
Z80783_at	HSH2BL	H2B/I gene. :H2B histone famil	log pos
Z80787_at	HSH4J	H4/j gene. :H4 histone family,	log pos
Z80787_at	HSH4J	H4/j gene. :H4 histone family,	log pos
Z83804_at	HSHDHC7	axonemal dynein heavy chain	log pos
Z84721_cds2_at	HSGG1	DNA sequence from cosmid GG1 f	log pos
Z84721_cds2_at	HSGG1	DNA sequence from cosmid GG1 f	log pos
Z93784_at	HS398C22	DNA sequence from PAC 398C22 o	log pos

TABLE 10

Urothelium			Other cell types			
Protein	Normal	pTa	pT2+	Leukocytes	Endothelium	Histiocytes
					m	
Keratin 8	+	+	+	-	-	-
CystatinC	+	+	+	+		+
Vimentin	+	-	+		+	
E-cadherin	+	(+)	(+)	?		
CD59	+	(+)	-	+	+	+
					+	
Cathepsin E	-	+	-	+		+
junB	-	+	-	-	-	+
IGF	+	+	-	-	-	-
Beta-2-microglob.	+	+	+	+	+	-
ApoE	+	-	+	-	-	-

CLAIMS

1. A method of determining an expression pattern of a cell sample independent of the proportion of submucosal, smooth muscle, or connective tissue cells present, comprising:
5 determining expression of one or more genes in a sample comprising cells, wherein the one or more genes excludes genes which are expressed in the submucosal, smooth muscle, or connective tissue, whereby a pattern of expression is formed for the sample which is independent of the proportion of submucosal, smooth muscle, or connective tissue cells in the sample.
- 10 2. The method of claim 1 wherein the sample comprises epithelial or carcinoma cells.
3. The method of claim 2 wherein the sample comprises urothelial or bladder cancer cells.
- 15 4. A method of determining an expression pattern of a cell sample, comprising:
determining expression of one or more genes in a sample comprising cells, whereby a first pattern of expression is formed for the sample;
removing expression of genes which are expressed in submucosal, smooth muscle, or connective tissue cells from the first pattern of expression,
20 whereby a second pattern of expression is formed, wherein the second pattern is independent of the proportion of submucosal, smooth muscle, or connective tissue cells in the sample.
5. The method of claim 4 wherein the cell sample is an epithelium or carcinoma sample.
- 25 6. The method of claim 5 wherein the cell sample is a urothelium or bladder cancer sample.
7. A method for determining an expression pattern of a urothelium or bladder cancer cell, comprising:
determining expression of one or more genes in a sample comprising
30 urothelium or bladder cancer cells, whereby a first pattern of expression is formed;

subtracting from the first pattern of expression a second pattern of expression, wherein the second pattern was formed using the one or more genes and a sample comprising predominantly submucosal, smooth muscle, or connective tissue cells, said step of subtracting forming a third pattern of expression which reflects expression of the urothelium or bladder cancer cells independent of the proportion of submucosal, smooth muscle, or connective tissue cells present in the sample.

8. A method of detecting an invasive tumor in a patient, comprising:
detecting in a sample of a body fluid a marker which is more prevalent in submucosal, smooth muscle, or connective tissue than in the body fluid, wherein the marker is an mRNA or protein expression product of a gene, wherein an increased amount of the marker in the body fluid indicates a tumor which has become invasive in the patient.

9. The method of claim 8 wherein the body fluid is selected from the group consisting of blood, plasma, serum, urine, ascites fluid, pleural fluid, spinal fluid, sputum, and mucous secretions.

10. The method of claim 8 wherein the marker is a protein characteristic of submucosal, smooth muscle, or connective tissue, but not found in the body fluid.

11. A method to diagnose a bladder cancer comprising:
determining a first pattern of expression of one or more genes in a bladder tissue sample suspected of being neoplastic;

comparing the first pattern of expression to a second and third reference pattern of expression, wherein the second pattern is of the one or more genes in normal urothelium and the third pattern is of the one or more genes in bladder cancer, wherein a first pattern of expression which is more similar to the third pattern than the second indicates neoplasia of the bladder tissue sample.

12. A method to predict outcome or prescribe treatment of a bladder tumor, comprising:

determining a first pattern of expression of one or more genes in a bladder tumor sample;

5 comparing the first pattern to one or more reference patterns of expression determined for bladder tumors at grades I to IV;

determining which of the reference patterns shares maximum similarity with the first pattern, wherein the outcome or treatment appropriate for the grade of tumor of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

13. A method to determine grade of a bladder tumor, comprising:

determining a first pattern of expression of one or more genes in a bladder tumor sample;

15 comparing the first pattern to one or more reference patterns of expression determined for bladder tumors at grades I to IV;

determining which of the reference patterns shares maximum similarity with the first pattern, wherein the grade of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

14. A method to determine stage of a bladder tumor, comprising:

20 determining a first pattern of expression of one or more genes in a bladder tumor sample;

comparing the first pattern to one or more stage-specific reference patterns;

25 determining which of the stage-specific reference patterns shares maximum similarity with the first pattern, wherein the stage of the reference pattern with the maximum similarity is assigned to the bladder tumor sample.

15. The method of claim 14 wherein the pattern of expression of the bladder tumor sample and the reference patterns comprise data on the expression of one or more genes selected from the group consisting of TCC-related genes, bladder papilloma-related genes, and invasive TCC-related genes.

30

16. A method of identifying a tissue sample as urothelial,
comprising:

determining a first pattern of expression of one or more genes in a
tissue sample;

5 comparing the first pattern of expression to a second pattern of
expression obtained from normal urothelial cells; wherein similarity between
the first and second patterns identifies the tissue sample as urothelial in its
origin.

17. The method of claim 16 further comprising the step of:
10 comparing the first pattern to one or more third patterns of expression
obtained from other cell types, wherein differences between the first
and third patterns confirms the suggestion that the tissue sample is
urothelial in origin.

18. A method to identify a set of genes useful for diagnosing,
15 predicting outcome, or prescribing treatment of a bladder
cancer comprising:

determining a first pattern of expression of one or more genes in a first
bladder tissue sample;

20 determining a second pattern of expression of the one or more genes
in a second bladder tissue sample, wherein the first bladder tissue sample is a
normal urothelium sample or an earlier stage or lower grade of bladder tumor
than the second bladder tissue sample;

25 comparing the first pattern of expression to the second pattern of
expression to identify a first set of genes whose expression is increased or
decreased in the second bladder tissue sample relative to the first bladder tissue
sample;

30 removing from the first set of genes those genes which are expressed
in submucosal, smooth muscle or connective tissue to produce a second set of
genes, wherein measurement of expression of the second set of genes can be
used for diagnosing, predicting outcome, or prescribing treatment of a bladder
cancer.

19. A method of determining an expression pattern of a bladder tissue sample independent of the proportion of submucosal, smooth muscle, or connective tissue cells present, comprising:
isolating a single-cell suspension of disaggregated bladder tumor cells
5 from a bladder tissue sample comprising bladder cells, and cells of one or more of a cell type selected from the group consisting of submucosal cells, smooth muscle cells, or connective tissue cells;
determining expression of one or more genes in the single-cell suspension, whereby a pattern of expression is formed for the sample which is
10 independent of the proportion of submucosal, smooth muscle, or connective tissue cells in the bladder tissue sample.
20. The method of any of claims 1-19 wherein expression of a gene is determined by assaying for an mRNA transcribed from the gene or a protein translated from an mRNA transcribed from the gene.
15
21. The method of any of claims 1-19 wherein expression of a plurality of genes is determined.
22. A method of screening for candidate therapeutic agents for treating bladder cancer, comprising the steps of:
20 contacting bladder tumor cells with a test compound;
determining gene expression of one or more genes in the bladder tumor cells which have been contacted with the test compound, wherein expression of the one or more genes changes during the development of a bladder cancer;
identifying a test compound as a candidate therapeutic agent if it causes
25 gene expression of at least one of the one or more genes to change to a level which is characteristic of an earlier stage of cancer progression.
23. A method of categorizing a tumor, comprising the steps of:
mixing cells of a plurality of tumors, wherein the tumors are of a single type and of a similar stage or grade to form a pool;
30 determining expression of one or more genes in the pool;

comparing expression of the one or more genes in the pool to expression in a test sample derived from a tumor, wherein similarities between the test sample expression and the pool expression permit categorization of the tumor.

5 24. A method of categorizing a tumor, comprising the steps of:
 mixing one or more gene products from cells of a plurality of tumors, wherein the tumors are of a single type and of a similar stage or grade to form a pool, wherein the gene product is mRNA or protein;

 determining expression of one or more genes in the pool by
10 assaying the gene product in the pool;

 comparing expression of the one or more genes in the pool to expression in a test sample derived from a tumor, wherein similarities between the test sample expression and the pool expression permit categorization of the tumor.

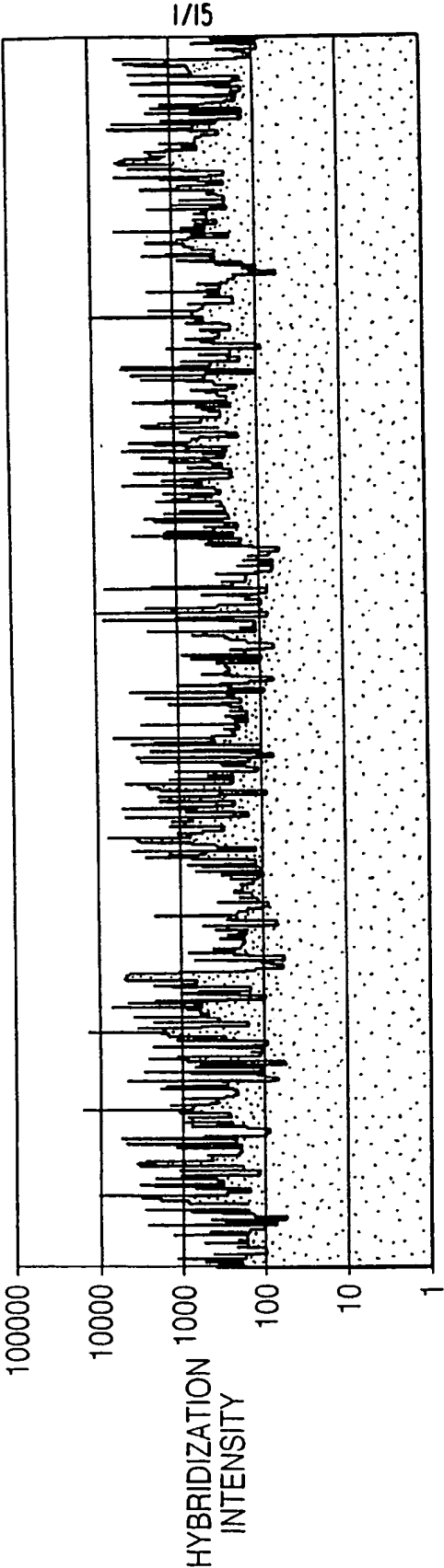
15 25. A method of categorizing a tumor, comprising the steps of:
 determining expression of one or more genes in a plurality of tumors, wherein the tumors are of a single type and of a similar stage or grade;
 combining data determined for the expression of the one or more genes to form a data pool;

20 comparing expression of the one or more genes in the data pool to expression in a test sample derived from a tumor, wherein similarities between the test sample expression and the data pool permit categorization of the tumor.

25 26. The method of claim 23, 24, or 25 wherein the tumors are bladder tumors.

FIG. 1

DISTRIBUTION OF EXPRESSION LEVELS IN BLADDER WALL

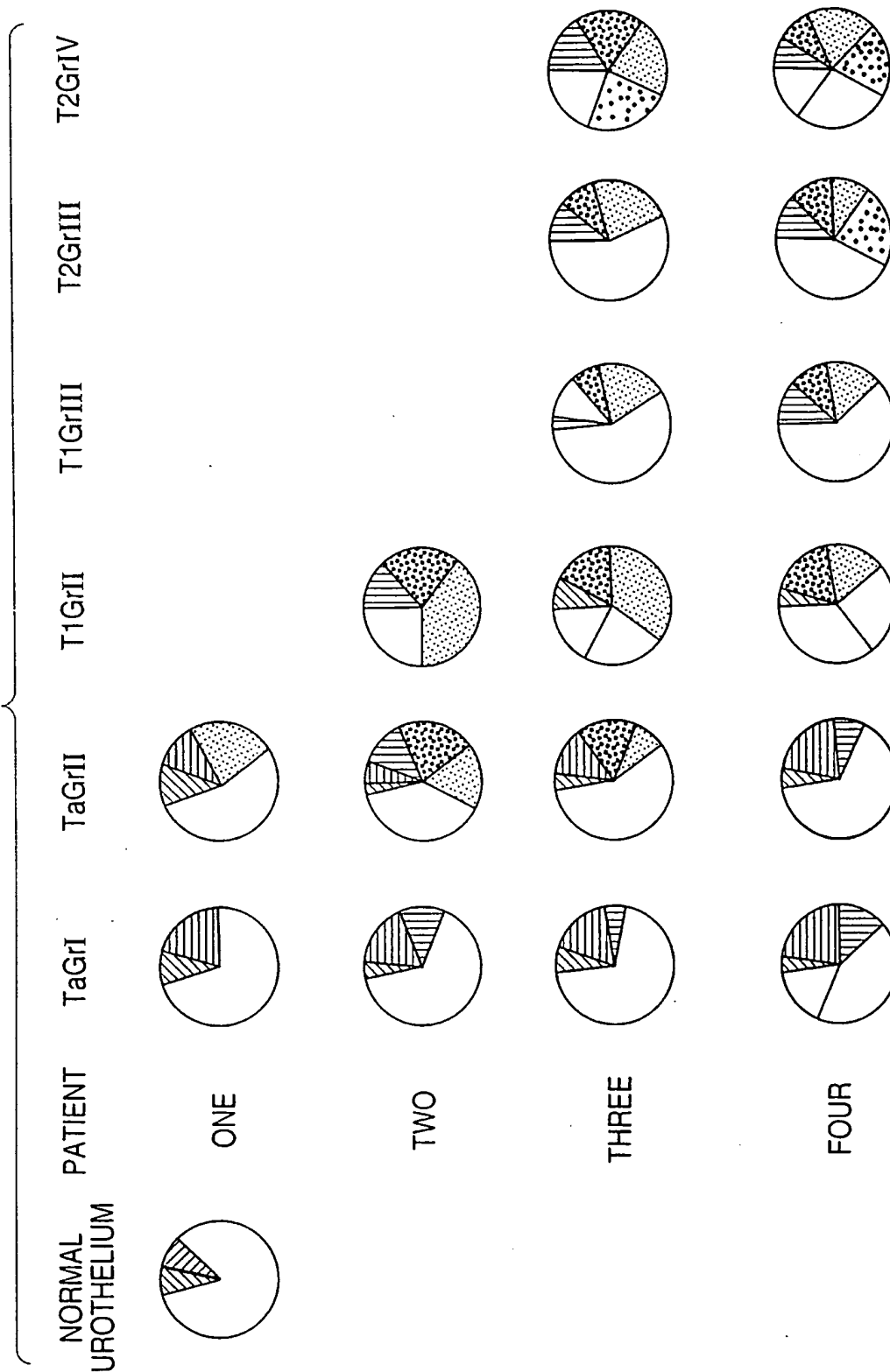


GENES SCORED AS PRESENT OR MARGINALLY PRESENT

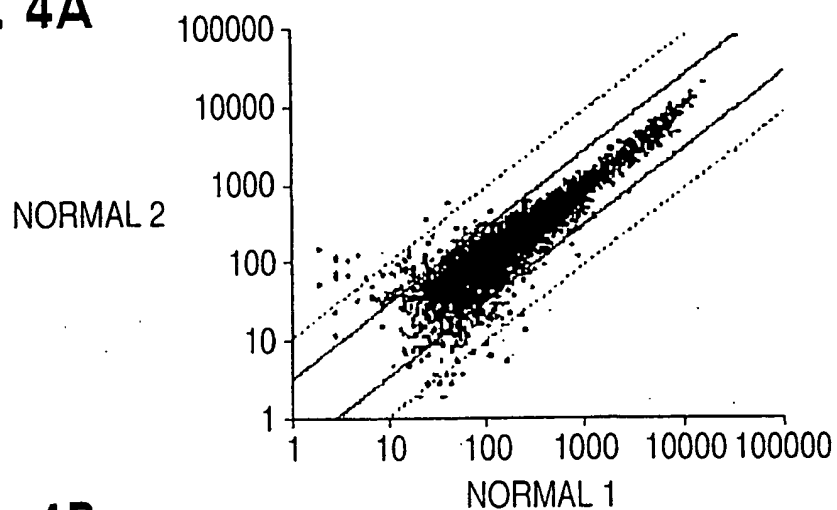
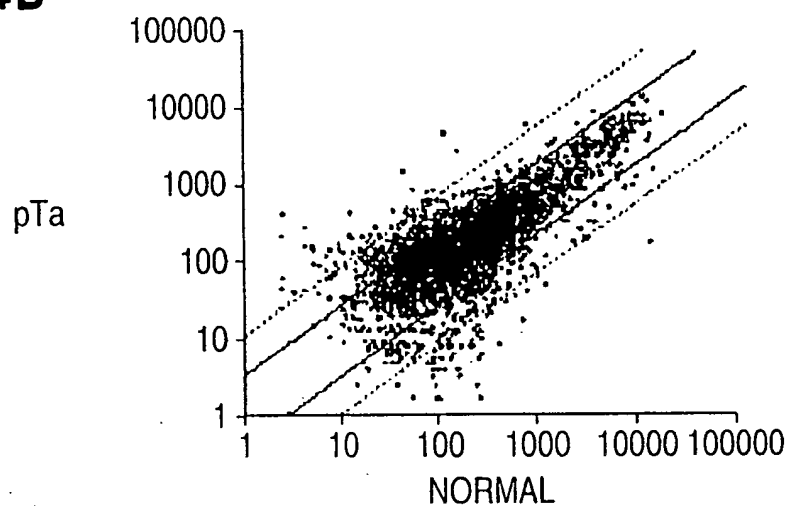
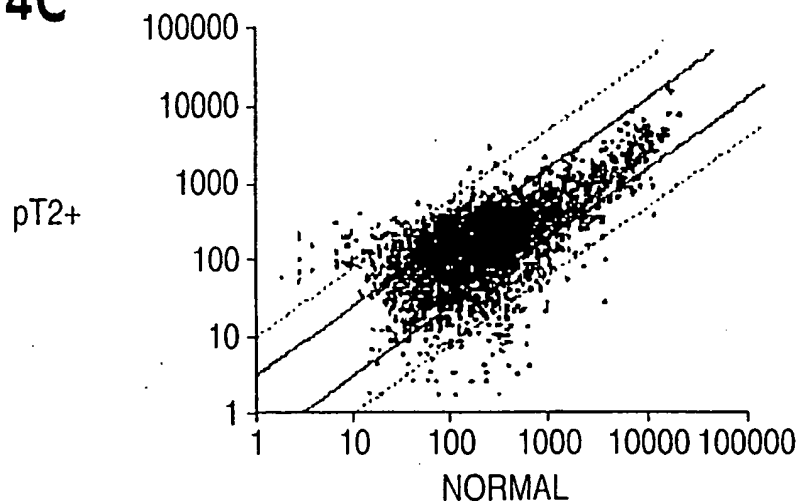
Fig. 2 was missing at the time of publication

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FIG.3



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FIG. 4A**FIG. 4B****FIG. 4C**

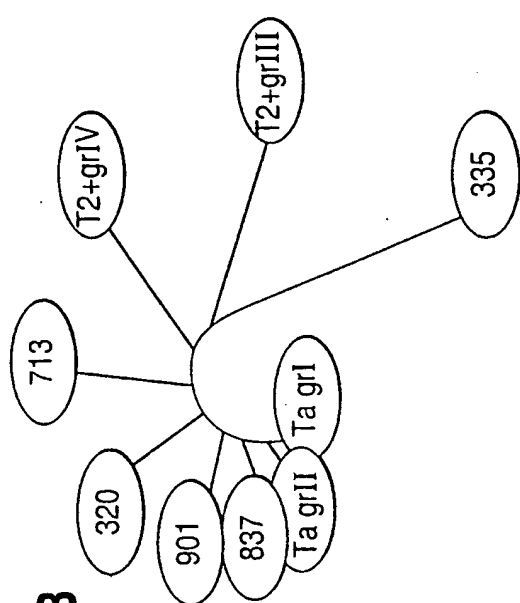


FIG. 5B

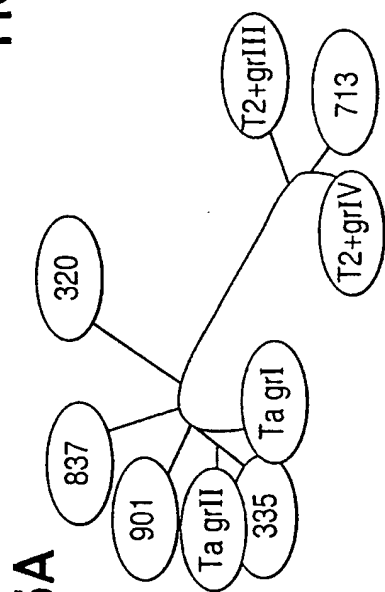


FIG. 5A

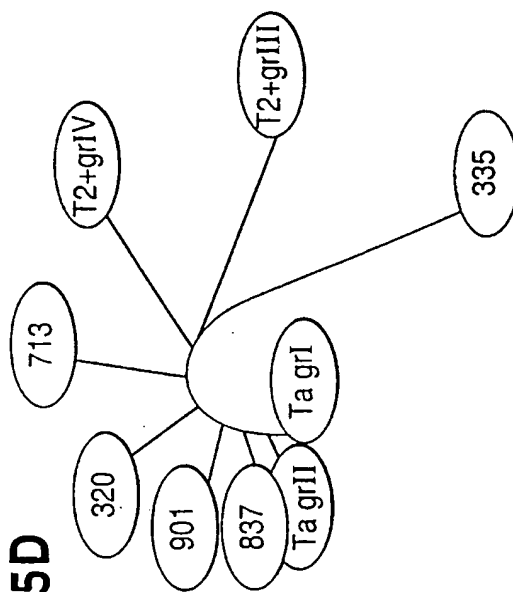


FIG. 5D

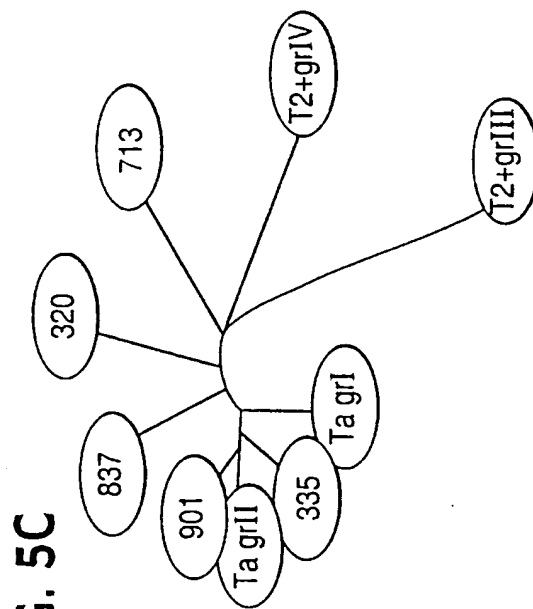
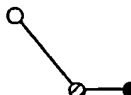


FIG. 5C

FIG. 6A

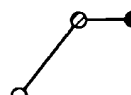
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TCC related genes



A.

M12125	Tropomyosin
D00654	Smooth muscle gamma-Actin
X04470	Antileukoprotease (ALP)
U08021	Nicotinamide N-methyltransferase (NNMT)
M16276	MHC class II HLA-DR2-Dw12
K02765	Complement component C3
J02854	Myosin light chain (MLC-2)
J05582	Pancreatic mucin
D17408	Calponin
M95787	Smooth muscle protein (SM22)
X99133	NGAL gene
M31951	Perforin (PRF1)
HG3431-HT3616	Decorin
S75256	Neutrophil lipocalin (HNL)
X13839	Smooth muscle alpha-Actin
M84526	Adipsin/complement factor D
AF001548	Chromosome 16 BAC clone CIT987SK-815A9

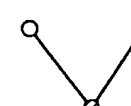
FIG. 6B



B.

M13955	Keratin K7 (type II)
D87953	RTP
HG3543-HT3739	Insulin-Like Growth Factor 2

FIG. 6C



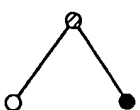
Bladder papilloma related genes

C.

M63438	Ig rearranged gamma chain V-J-C region and complete cds
M25079	Sickle cell beta-globin
Z84721	Human DNA sequence 2Mb contig from cosmid GG1
X00274	HLA-DR alpha heavy chain a class II antigen
X57809	Rearranged immunoglobulin lambda light chain
M34516	Human omega light chain protein 14.1
M13560	Ia-associated invariant gamma-chain gene
L02326	Clone Hu lambda-17
M33600	MHC class II HLA-DR-beta-1 (HLA-DRB1)
HG1428-HT1428	"Globin Beta"
V00594	Metallothionein
X57351	1-8D gene from interferon-inducible gene family
S71043	Ig alpha 2=immunoglobulin A heavy chain allotype 2
M87789	"Human (hybridoma H210) anti-hepatitis A IgG
M12529	Human apolipoprotein E
HG3576-HT3779	MHC Class II Beta W52
M57466	MHC class II HLA-DP light chain
Z19554	Vimentin gene
X03068	HLA-D class II antigen DQw1.1 beta chain
J04164	Interferon-inducible protein 27-Sep
X17042	MRNA for hematopoietic proteoglycan core protein
M55998	Alpha-1 collagen type I

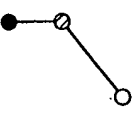
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FIG.6D



J03242	D.
U20734	Insulin-like growth factor II
X64364	Transcription factor junB
L12711	MRNA for M6 antigen
M32053	Transketolase (tk)
M17863	H19 RNA "gene"
X15573	Preproinsulin-like growth factor II (IGF-II)
M22430	Liver-type 1-phosphofructokinase (PFKL)
M84424	RASF-A PLA2
X59798	Cathepsin E (CTSE)
X07696	PRAD1 mRNA for cyclin
M94856	MRNA for cytokeratin 15
	Human fatty acid binding protein homologue (PA-FABP)

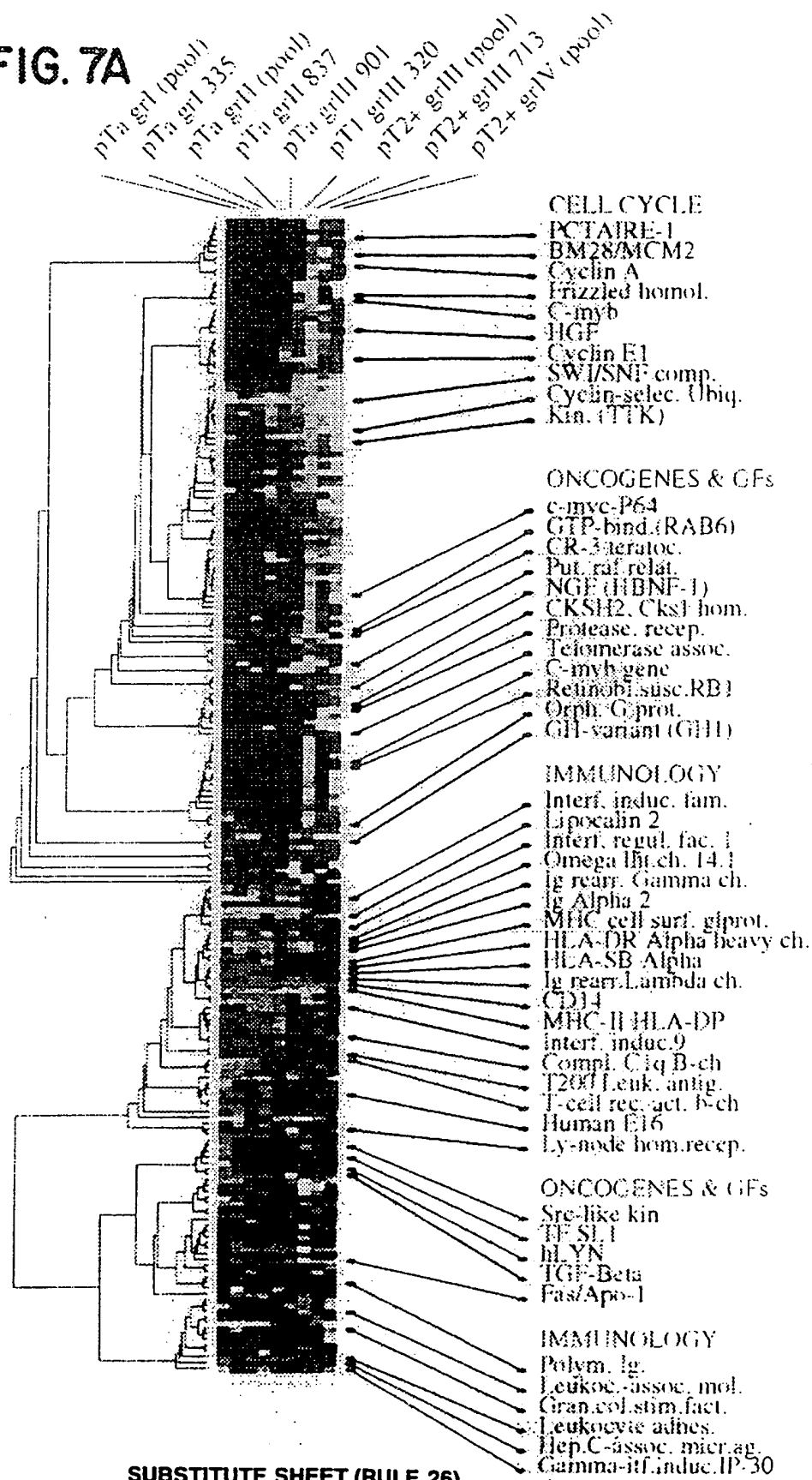
FIG.6E



	<u>Invasive TCC related genes</u>
	E.
M62403	Insulin-like growth factor binding protein 4 (IGFBP4)
J04093	Phenol UDP-glucuronosyltransferase (UDPGT)
X12876	DNA seq. From RP3-474112 on chromosome 22q13.1-13.2
L19686	Macrophage migration inhibitory factor
AC002115	DNA from chr. 19 cosmids R31396, F25451, and R31076
M55409	Pancreatic tumor-related protein
U12404	Human Csa-19
Z28407	MRNA for ribosomal protein L8
X93036	MRNA for MAT8 protein
X98482	TNNT2 gene exon 11
X82693	MRNA for E48 antigen
AF000562	Uroplakin II
U16799	Na,K-ATPase beta-1 subunit
X54232	MRNA for heparan sulfate proteoglycan (glypican)
J02874	Adipocyte lipid-binding protein
L76568	S26 from excision and cross link repair protein (ERCC4)
M65292	Human factor H homologue
L33842	Type II inosine monophosphate dehydrogenase (IMPDH2)
U24389	Lysyl oxidase-like protein gene
X76180	MRNA for lung amiloride sensitive Na ⁺ channel protein
D63475	MRNA for KIAA0109
D16480	Mitochondrial enoyl-CoA hydratase/3-hydroxyacyl-CoA dehydrogenase

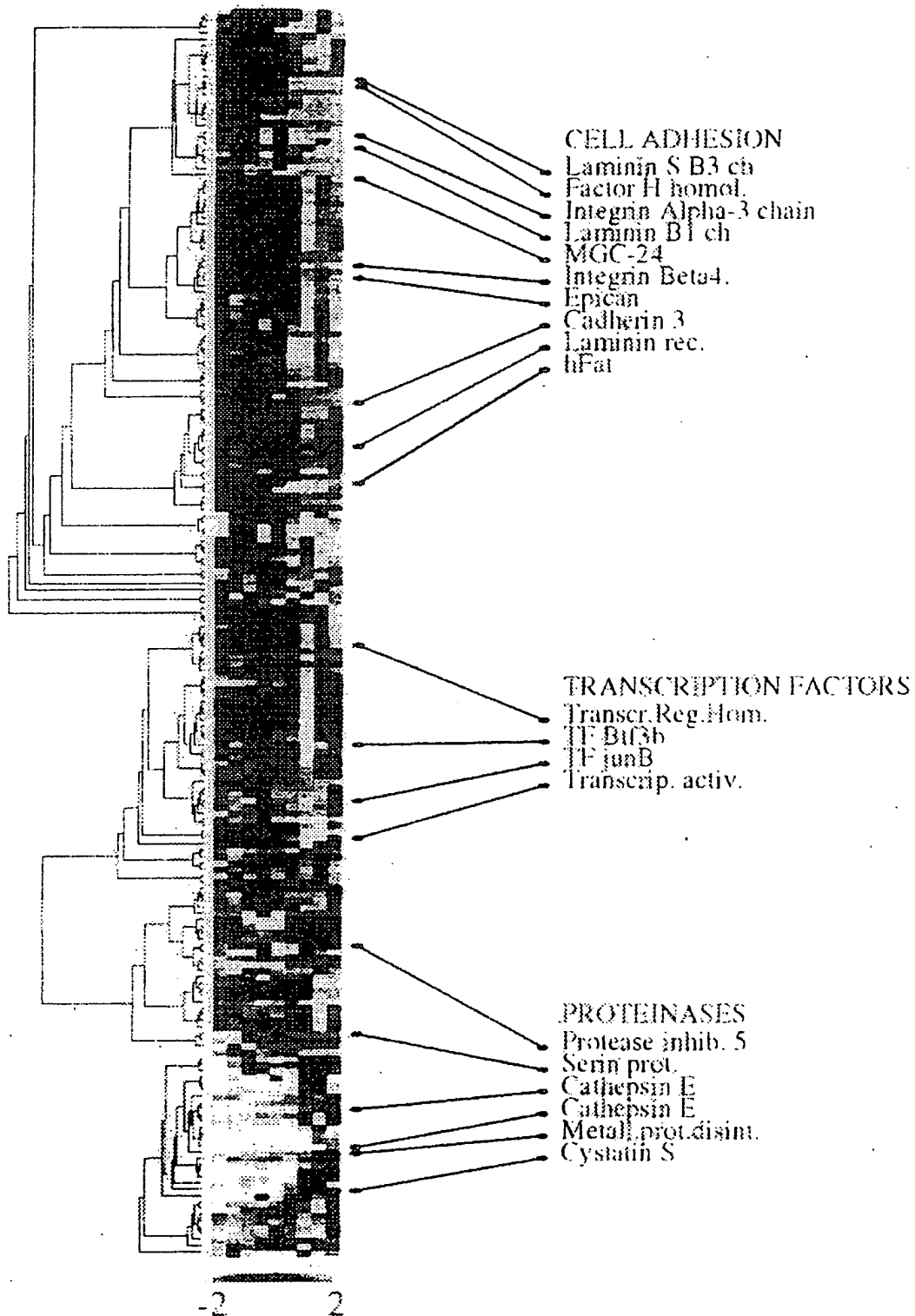
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FIG. 7A



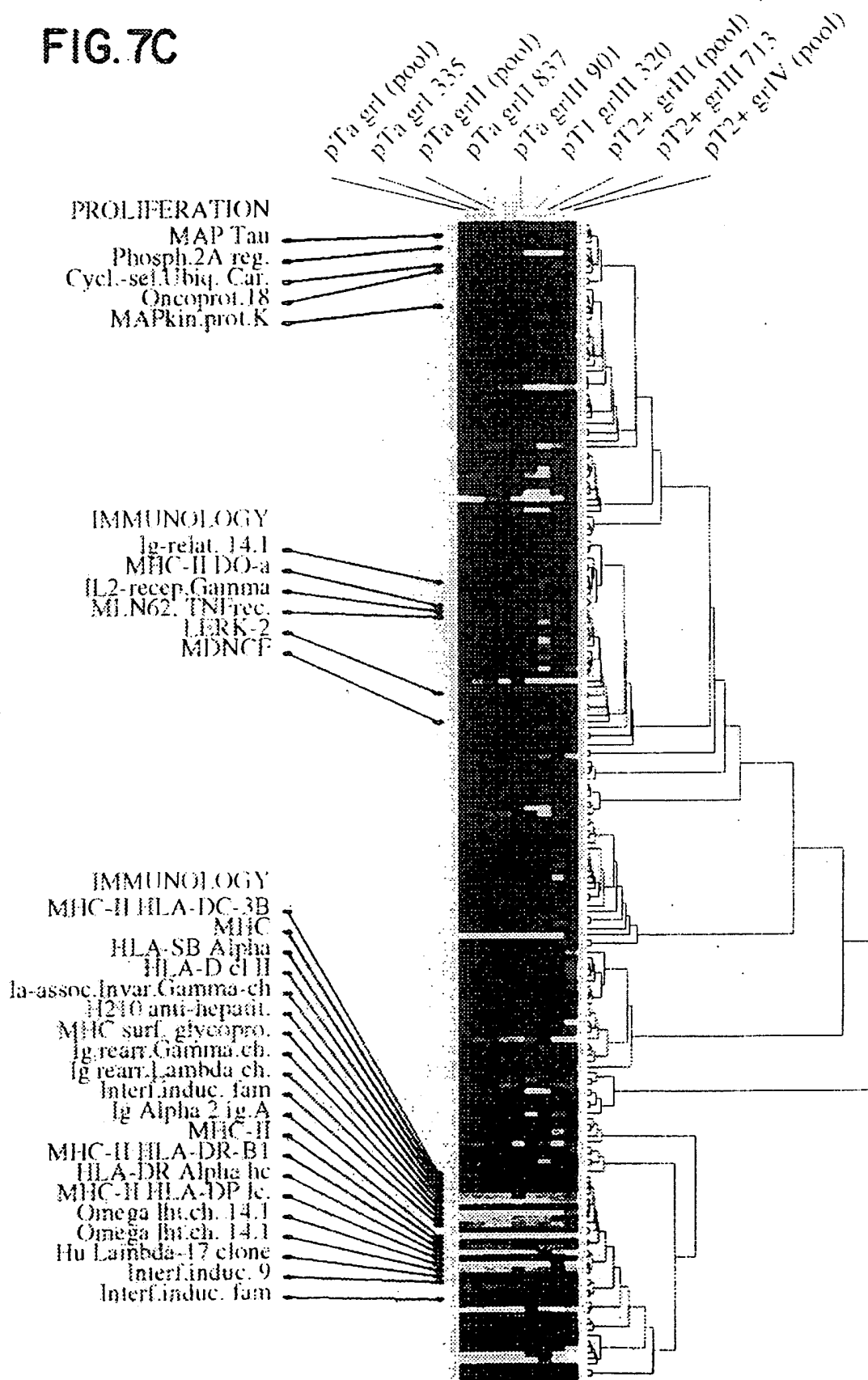
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FIG. 7B



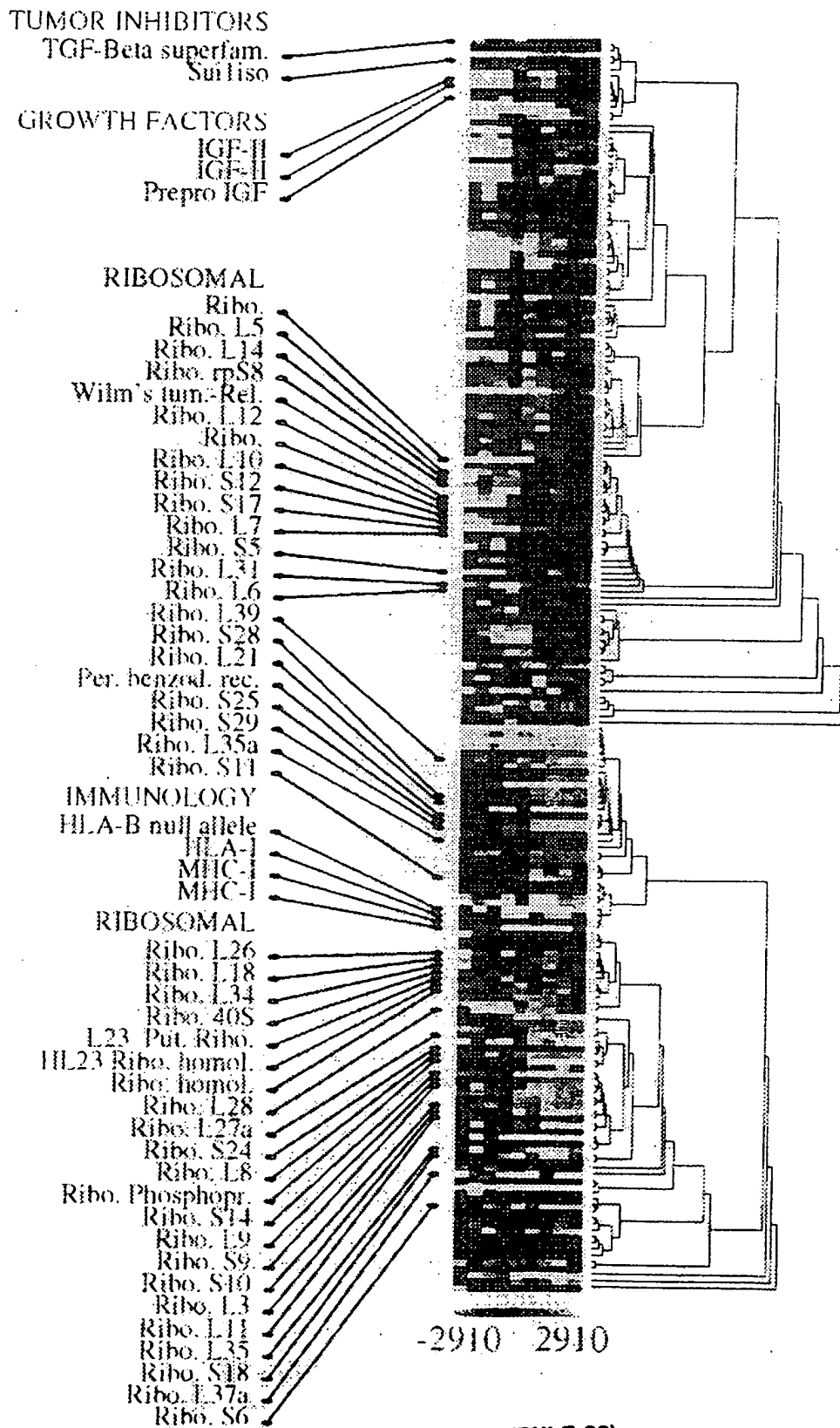
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FIG. 7C



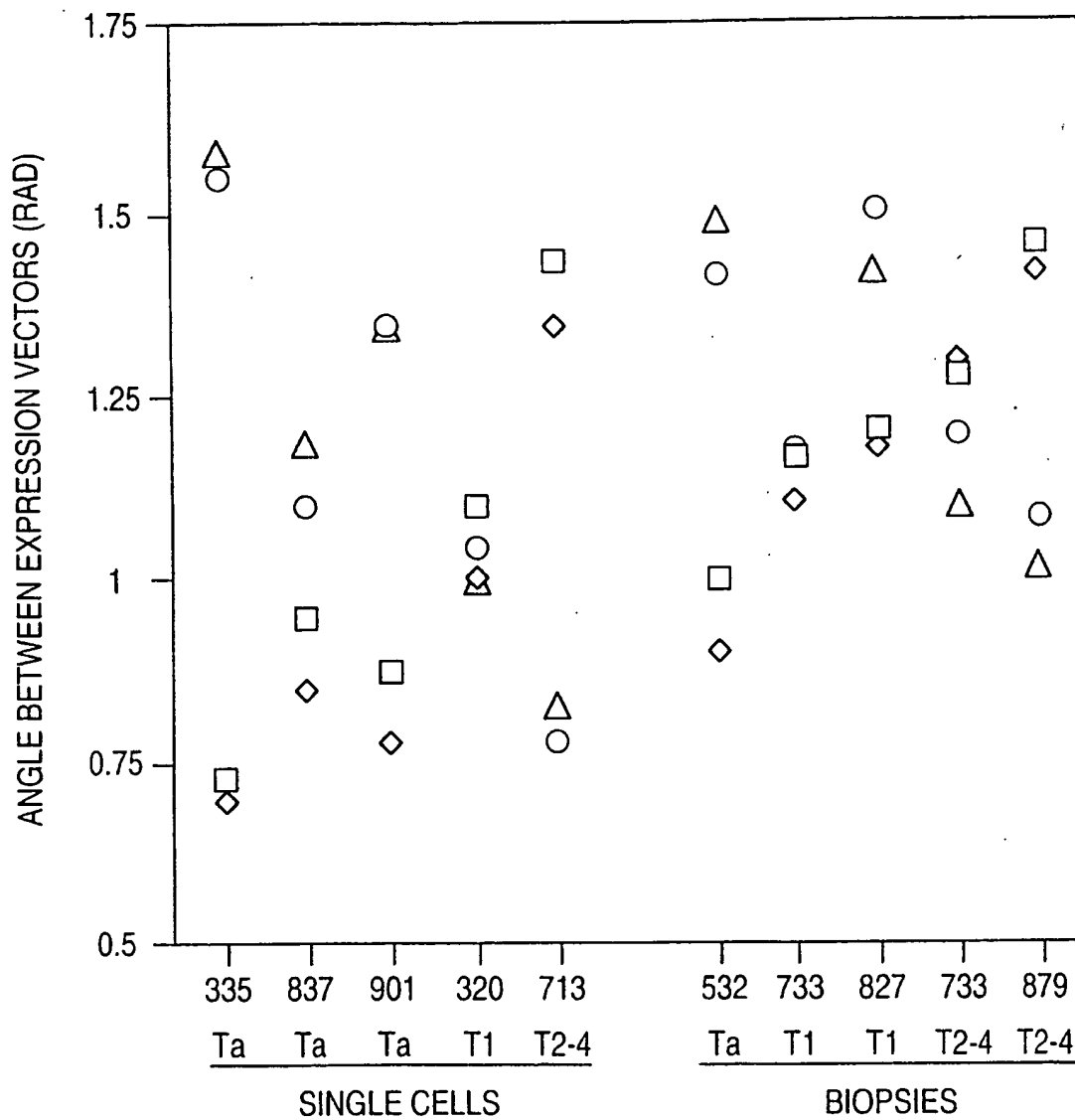
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FIG. 7D

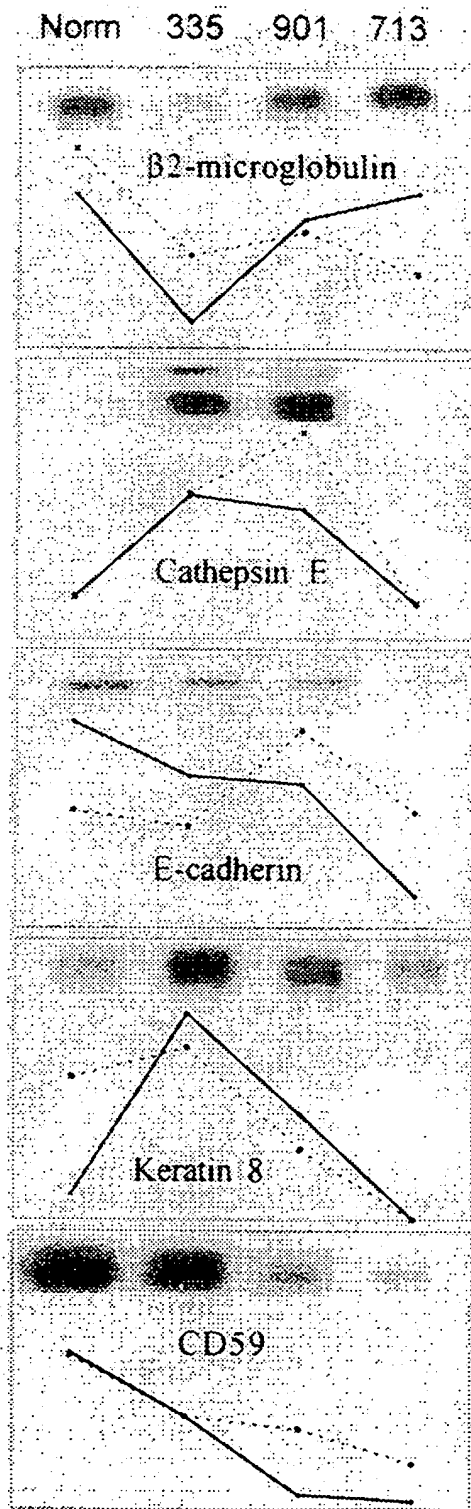


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FIG.8

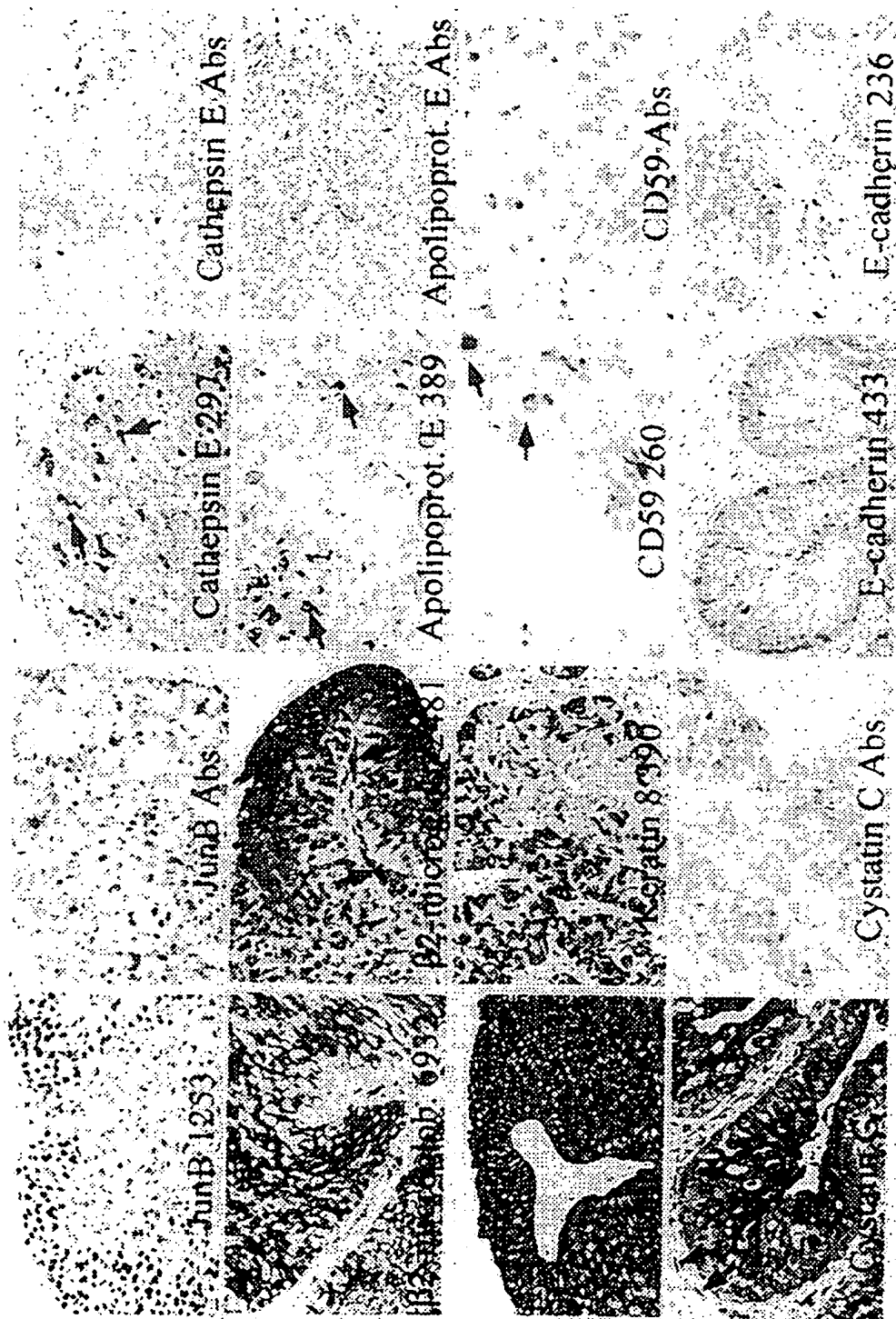


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FIG. 9

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FIG. 10



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Fig. 11 was missing at the time of publication